Access DB# 24201

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Melanie Bagwell Examiner #: 77899 Date: 9/1/00
Art Unit: 1711 Phone Number 305-6599 Serial Number: 09/444,968
Mail Box and Bldg/Room Location: CP3 4E09 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Coating Composition Based on a Hydroxy-Group-Containing Film-Forming Polymer

Inventors (please provide full names): Paul Marie Vandevoorde, Antonius H.G. Van Engelen, Ann Alfred J. LeMaire

Earliest Priority Filing Date: _____

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

(closest art toward the beginning of printout)

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STAFF USE ONLY	Type of Search		Vendors and cost where applicable	
Searcher: EIC	NA Sequence (#)		STN	B 307.92
Searcher Phone #:	AA Sequence (#)		Dialog	
Searcher Location: STIC	Structure (#)	(4) (w/sets)	Questel/Orbit	
Date Searcher Picked Up:	Bibliographic	(and)	Dr.Link	
Date Completed: 9-6-00	Litigation		Lexis/Nexis	
Searcher Prep & Review Time: 10	Fulltext		Sequence Systems	
Clerical Prep Time:	Patent Family		WWW/Internet	
Online Time: 65	Other		Other (specify)	

PTO-1590 (1-2000)

SCIENTIFIC REFERENCE BR
Sci. & Tech. Info. Cntr

Access DB# 24201

SEARCH REQUEST FORM

SEP 0 1

Scientific and Technical Information Center

Pat. & T.M. Office

Requester's Full Name: Melanie Bagwell Examiner #: 77899 Date: 9/1/00

Art Unit: 1711 Phone Number 308-6539 Serial Number: 09/444968

Mail Box and Bldg/Room Location: CP3 4E09 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Coating Composition Based on a Hydroxy-Group-Containing-Film-forming Polymer

Inventors (please provide full names): Paul Marie Vandevorde, Antonius H.G. Van Engelen, Ann Alfred J. LeMaire

Earliest Pric

*For Sequenc
appropriate ser

1. A coating composition comprising a hydroxy group-containing film forming polymer with a hydroxy value between 75 and 300 mg KOH/g solid resin, a polyisocyanate compound, and a diol of the general formula $HO-CH_2-CR(C_2H_5)-CH_2-OH$, wherein R is an alkyl group having 3-6 carbon atoms.

2. The coating composition according to claim 1, wherein R is n-butyl.

3. The coating composition according to claim 1, wherein the hydroxy group-containing film forming polymer is a hydroxy group-containing polyacrylate.

4. The coating composition according to claim 1, wherein the diol is present in the coating composition in an amount of 1 to 25% by weight, based on the weight of the hydroxy group-containing film forming polymer.

5. The coating composition according to claim 1, wherein the composition comprises less than 500 g/l of volatile organic solvent based on the total composition.

********* STAFF I

6. The coating composition according to claim 1, wherein the composition

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FILE 'REGISTRY' ENTERED AT 17:19:25 ON 06 SEP 2000
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Structure search limits have been increased.  See HELP SLIMIT
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     (FILE 'HOME' ENTERED AT 15:02:03 ON 06 SEP 2000)

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     FILE 'REGISTRY' ENTERED AT 15:03:36 ON 06 SEP 2000
L1                STR
L2                STR
L3                SCR 1837 AND 1944
L4             22 S L1 AND L2 AND L3
L5            913 S L1 AND L2 AND L3 FUL
                  SAV L5 BAG968/A
L6             12 S L5 AND 1/NC
L7            892 S L5 AND PMS/CI
                  E POLYISOCYANATE/PCT
                  E POLYESTER/CN
                  E POLYESTER/PCT
L8         146515 S E3
                  E POLYURETHANE/PCT
L9          55012 S E3
L10           734 S L7 AND L8
L11           411 S L7 AND L9
L12           289 S L7 AND L8 AND L9
                  E POLYACRYLIC/PCT
L13        236480 S E3
L14           114 S L13 AND L5

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L15         14242 S E3
                  E COATING MATERIALS/CV
L16        175851 S E3
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                E COATING PROCESS/CV
L17         80469 S E3
L18          3428 S CLEARCOAT? OR CLEAR?(2A)COAT?
L19         96538 S ?ISOCYANAT? OR NCO OR OCN OR N(W)C(W)O OR O(W)C(W)N
L20           217 S L6
L21           331 S L10
L22           205 S L11
L23           138 S L12
L24            50 S L14
L25            22 S (L20 OR L21 OR L22 OR L23 OR L24) AND L18
L26             4 S L20 AND L18
L27            43 S L20 AND (L15 OR L16 OR L17)
L28            21 S L27 AND L19
L29             9 S L28 AND (?ACRYLIC? OR ?ACRYLAT?)
L30            10 S L28 AND (POLYESTER# OR POLY(2A)ESTER#)
L31            19 S L28 AND ?URETHAN?
L32          7315 S KOH(2W)(G OR GR OR GM# OR GRAM#)
L33             0 S L28 AND L32
L34         37477 S (HYDROXY### OR DIHYDROXY### OR TRIHYDROXY### OR TETRAHY
L35             1 S L28 AND L34
L36           200 S (L20-L24) AND (L15 OR L16 OR L17 OR L18)
L37            20 S L36 AND L34
L38            15 S L37 AND L19
L39            12 S L37 AND (?ACRYLIC? OR ?ACRYLAT?)
L40            17 S L37 AND (POLYESTER# OR POLY(2A)ESTER#)
L41            13 S L37 AND ?URETHAN?
L42            13 S L20 AND L32
L43             1 S L42 AND (L15-L18)
L44             0 S L42 AND L19
L45             0 S L42 AND (?ACRYLIC? OR ?ACRYLAT?)
L46            11 S L42 AND (POLYESTER# OR POLY(2A)ESTER#)
L47             3 S L42 AND ?URETHAN?

     FILE 'HCAPLUS' ENTERED AT 16:18:52 ON 06 SEP 2000
L48            46 S VANDEVOORDE ?/AU
L49           283 S ENGELEN ?/AU OR VAN ENGELEN ?/AU
L50          2176 S LEMAIRE ?/AU OR LE MAIRE ?/AU
L51             1 S L48 AND L49 AND L50
                  SEL
L51 1 RN

     FILE 'REGISTRY' ENTERED AT 16:20:18 ON 06 SEP 2000
L52             2 S E1-E2

     FILE 'HCA' ENTERED AT 16:22:11 ON 06 SEP 2000
L53             1 S L52

     FILE 'REGISTRY' ENTERED AT 16:23:21 ON 06 SEP 2000
L54         21560 S 868-77-9/CRN
L55          2261 S 923-26-2/CRN
                  SEL L6 1-12 RN
                  EDIT E3-E14 /BI /CRN
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L56          723 S E3-E14
L57           30 S L56 AND (L54 OR L55)
L58           30 S L57 AND L7

     FILE 'HCA' ENTERED AT 16:28:45 ON 06 SEP 2000
L59           13 S L58
L60            9 S L59 AND (L15 OR L16 OR L17 OR L18)
L61            2 S L35 OR L43
L62            9 S L60 NOT L61
L63            6 S (L26 OR L47) NOT (L61 OR L62)
L64           24 S (L38 OR L39 OR L40 OR L41 OR L46) NOT (L61 OR L62 OR L6
L65           34 S (L25 OR L28 OR L31) NOT (L61 OR L62 OR L63 OR L64)
L66           15 S L65 AND L18
L67           19 S L65 NOT L66

     FILE 'REGISTRY' ENTERED AT 17:19:25 ON 06 SEP 2000

=> file hca

FILE 'HCA' ENTERED AT 17:19:43 ON 06 SEP 2000
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FILE COVERS 1967 - 1 Sep 2000 VOL 133 ISS 11
FILE LAST UPDATED: 1 Sep 2000  (20000901/ED)

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  substance identification.

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Now you can extend your author, patent assignee, patent information,
and title searches back to 1907.  The records from 1907-1966 now have
this searchable data in CAOLD.  You now have electronic access to all
of CA: 1907 to 1966 in CAOLD and 1967 to the present in HCA on STN.

=> d l61 1-2 ibib abs hitstr hitind

L61  ANSWER 1 OF 2  HCA  COPYRIGHT 2000 ACS
ACCESSION NUMBER:        132:195564  HCA
TITLE:                   Polyamide-ester modifiers, compositions
                         containing them, and their molded products with
```

excellent adhesion to coatings and adhesives

INVENTOR(S): Kitahara, Shizuo; Ikeda, Shinya
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

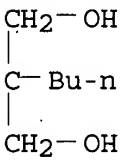
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000072872	A2	20000307	JP 1998-256029	19980826

AB The compns., useful for elec., electronic, and automotive parts, etc., contain the modifiers obtained from polybasic carboxylic acids, polyhydric alcs., and polyamines, where the mol ratio of amide/ester is 99/1-10/90, OH value is 30-200 mg-**KOH**/**g**, and Mw is 3000-500,000. Thus, a compn. contg. 100 parts EPDM 3070 (rubber) and 10 parts a reaction product of Versadyme 288 (dimer acid) 1034, 1,6-hexamethylenediamine 201.9, and pentaerythritol 59.2 g was molded into a sheet and coated with a polyurethane adhesive to give a test piece showing good peeling strength.

IT **115-84-4DP**, 2-Butyl-2-ethyl-1,3-propanediol, polymers with dimer acids and polyamines
(polyamide-polyester modifiers for molded products with good adhesion to coatings and adhesives)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08G069-44
ICS C08L023-16; C08L101-00

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 37, 39

IT Adhesives
Coating materials
(thermosetting; polyamide-polyester modifiers for molded products with good adhesion to coatings and adhesives)

IT 107-15-3DP, 1,2-Ethylenediamine, polymers with dimer acids and polyols 115-77-5DP, Pentaerythritol, polymers with dimer acids and diamines **115-84-4DP**, 2-Butyl-2-ethyl-1,3-propanediol, polymers with dimer acids and polyamines 124-09-4DP, 1,6-Hexanediamine, polymers with dimer acids and polyols

4457-71-0DP, 3-Methyl-1,5-pentanediol, polymers with dimer acids and polyamines
(polyamide-polyester modifiers for molded products with good adhesion to coatings and adhesives)

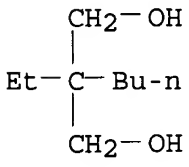
L61 ANSWER 2 OF 2 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 118:126606 HCA
TITLE: Transparent protective polyurethane coating materials
INVENTOR(S): Okamoto, Kohei; Shiraki, Yoshiro; Tanaka, Toshihiro
PATENT ASSIGNEE(S): Idemitsu Petrochemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04225083	A2	19920814	JP 1990-415317	19901227
JP 3024801	B2	20000327		

AB Coating materials contain polyols contg. >50% hydrogenated liq. isoprene polymers having >2 OH groups/mol., .gtoreq.1 **polyisocyanate**, and 40-200 parts (per 100 parts polyols) viscosity-lowering agents selected from aliph. and alicyclic hydrocarbons having flash point >40.degree.. Thus, a coating material **contained** hydrogenated **OH** group-terminated liq. polyisoprene 100, IPDI 9.4, IP-2028 (isobutylene oligomer) 100, an accelerator 0.05, and a defoamer 0.01 part.

IT **115-84-4D**, 2-Butyl-2-ethyl-1,3-propanediol, polymers with hydrogenated hydroxy-terminated polyisoprene and **polyisocyanates**
(coatings, protective, transparent)

RN 115-84-4 HCA
CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C09D175-04
ICS C09D175-04
CC 42-10 (Coatings, Inks, and Related Products)
IT Castor oil

(esters, polymers, with hydrogenated hydroxy-terminated polyisoprene and **polyisocyanates**, for coatings transparent, protective)

IT **Coating materials**
(transparent, protective, hydrogenated hydroxy-terminated polyisoprene and **polyisocyanates** for)

IT 94-96-2D, 2-Ethyl-1,3-hexanediol, polymers with hydrogenated hydroxy-terminated polyisoprene and **polyisocyanates** **115-84-4D**, 2-Butyl-2-ethyl-1,3-propanediol, polymers with hydrogenated hydroxy-terminated polyisoprene and **polyisocyanates** 4098-71-9D, IPDI, polymers with hydrogenated hydroxy-terminated polyisoprene 5124-30-1D, polymers with ethylhexanediol and hydrogenated hydroxy-terminated polyisoprene 9003-31-0D, Polyisoprene, hydroxy-terminated, hydrogenated, polymers with **polyisocyanates** 42170-25-2D, polymers with hydrogenated hydroxy-terminated polyisoprene 75138-76-0D, Takenate 600, polymers with hydrogenated hydroxy-terminated polyisoprene 79103-62-1D, Desmodur W, polymers with ethylhexanediol and hydrogenated hydroxy-terminated polyisoprene 136960-44-6D, Uric Y403, polymers with hydrogenated hydroxy-terminated polyisoprene and **polyisocyanates**
(coatings, protective, transparent)

=> d his l68-

(FILE 'HCA' ENTERED AT 16:28:45 ON 06 SEP 2000)

FILE 'REGISTRY' ENTERED AT 17:19:25 ON 06 SEP 2000

FILE 'HCA' ENTERED AT 17:19:43 ON 06 SEP 2000
L68 9121 S (HYDROXY### OR OH OR HO)(2A)(VALUE# OR CONTENT?)
L69 22 S L20 AND L68
L70 4 S L69 AND (L15 OR L16 OR L17 OR L18)
L71 3 S L70 NOT L61

=> d l71 1-3 ibib abs hitstr hitind

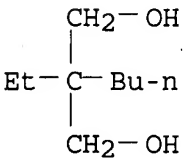
L71 ANSWER 1 OF 3 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 130:82885 HCA
TITLE: Use of 2-butyl-2-ethyl-1,3-propanediol in polyester resins for coil coatings
AUTHOR(S): Vaahtio, Marja
CORPORATE SOURCE: Neste, Finland
SOURCE: Eur. Coat. J. (1998), (12), 948,951-952
CODEN: ECJOEF; ISSN: 0930-3847
PUBLISHER: Vincentz Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A report on the phys. properties of polyester resins and coatings

contg. different amts. of 2-butyl-2-ethyl-1,3-propanediol and 1,6-hexanediol is given. Topics include the synthesis of the resins, phys. properties of the resins (e.g. glass transition temp., **hydroxyl values**) and the coatings (e.g. viscosity, flexibility vs. hardness, weathering, stain and MEK-rub resistance), and a brief discussion of the exptl. obtained results. Moreover, the effect of addnl. adipic acid, for enhanced flexibility, on the coating properties was detd.

IT **115-84-4D**, 2-Butyl-2-ethyl-1,3-propanediol, polymers
(properties of butylethylpropanediol or hexanediol-contg. polyester resins used for coil coatings)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



CC 42-8 (Coatings, Inks, and Related Products)

IT **Coatings**
(coil; properties of butylethylpropanediol or hexanediol-contg. polyester resins used for coil coatings)

IT **115-84-4D**, 2-Butyl-2-ethyl-1,3-propanediol, polymers
629-11-8, 1,6-Hexanediol
(properties of butylethylpropanediol or hexanediol-contg. polyester resins used for coil coatings)

L71 ANSWER 2 OF 3 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 122:268290 HCA
TITLE: Urethanated oil compositions for water-based coating materials
INVENTOR(S): Amemoto, Masahide
PATENT ASSIGNEE(S): Dainippon Ink & Chemicals, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06279562	A2	19941004	JP 1993-69947	19930329

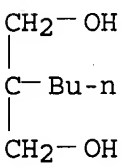
AB Storage-stable title compns. mainly comprise aq. urethanated oils obtained by reacting (A) resins (**OH value** 30-250) prepd. by reaction of drying oils and/or their fatty acids, (B) oxycarboxylic acids, (C) other hydroxy compds., (D) org.

isocyanates, and (E) chain extenders. Thus, linseed oil 500, soybean oil 500, and pentaerythritol 66 parts were heated in the presence of LiOH at 250.degree. to give a resin soln., 730 parts of which was stirred with polypropylene glycol (mol. wt. 400) 30, dimethylolpropionic acid 48, and TDI 192 parts in 700 parts MEK to NCO content 1.5% (solid content), cooled, then mixed with 37 parts Et3N, then stirred in 2000 parts water contg. 15 parts piperazine, then distd. under reduced pressure to give a translucent resin soln. contg. 35% nonvolatiles, which was mixed with Dicnate 3111 and water to give a coating material, which showed viscosity 1650, 1550 cP and pH 9.2, 9.0, after 1 wk and 3 mo, resp.

IT **115-84-4DP**, reaction products with drying oils and oxycarboxylic acids and chain extenders
(urethanated oil compns. with good storage stability for aq. coatings)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08G018-32
ICS C08G018-42

ICA C08L075-04; C09D175-04

CC 42-10 (Coatings, Inks, and Related Products)

IT **Coating materials**
(urethanated oil compns. with good storage stability for aq. coatings)

IT 106-14-9DP, 12-Hydroxystearic acid, reaction products with drying oils and hydroxy compds. and org. isocyanates and chain extenders 110-85-0DP, Piperazine, reaction products with drying oils and oxycarboxylic acids and hydroxy compds. 115-77-5DP, Pentaerythritol, reaction products with drying oils and oxycarboxylic acids and org. isocyanates and chain extenders **115-84-4DP**, reaction products with drying oils and oxycarboxylic acids and chain extenders 302-01-2DP, Hydrazine, reaction products with drying oils and oxycarboxylic acids and hydroxy compds. 822-06-0DP, Hexamethylene diisocyanate, reaction products with drying oils and hydroxy compds. and org. isocyanates and chain extenders 4767-03-7DP, Dimethylolpropionic acid, reaction products with drying oils and hydroxy compds. and org. isocyanates and chain extenders 25068-38-6DP, Epikote 1001, reaction products with drying oils and oxycarboxylic acids and hydroxy compds. and chain extenders 25322-69-4DP, Polypropylene glycol, reaction products with drying oils and oxycarboxylic acids and org. isocyanates and chain extenders 26471-62-5DP, TDI,

reaction products with drying oils and hydroxy compds. and org. isocyanates and chain extenders
(urethanated oil compns. with good storage stability for aq. coatings)

L71 ANSWER 3 OF 3 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 122:242428 HCA
TITLE: Thermosetting water-based alkyd resin compositions
INVENTOR(S): Amemoto, Masahide
PATENT ASSIGNEE(S): Dainippon Ink & Chemicals, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

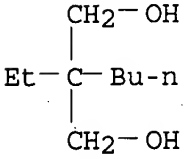
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06329892	A2	19941129	JP 1993-124043	19930526

AB The compns., with stable resistance to hydrolysis, comprise curing agents and resins obtained by reaction of (A) alkyd resins with **OH value** 30-250, (B) hydroxy carboxylic acids, (C) org. isocyanates, and (D) other hydroxy compds. Thus, 1000 parts safflower oil was treated with 150 parts pentaerythritol in the presence of LiOH to give a resin soln. with **OH value** 200, 690 parts of which was treated with M 4000 (polyethylene glycol mono-Me ether) 55, dimethylolpropionic acid 60, and TDI 195 parts in MEK, emulsified in water in the presence of Et3N, then MEK was removed by distn. to give a translucent soln. with solids content 35%, which was mixed with Watersol S 695, water, and R 820 (TiO2) to give a coating compn. with good hydrolysis resistance, which was sprayed on a bonderized steel sheet to give a coating with hardness H and gloss 89.

IT **115-84-4DP**, 2-Ethyl-2-butyl-1,3-propanediol, polymers
(thermosetting aq. alkyd resin-urethane coatings with good hydrolysis resistance)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08L067-08
ICS C08L075-04; C09D167-08; C09D175-04

ICA C08G018-42
CC 42-8 (Coatings, Inks, and Related Products)
IT **Coating materials**
(thermosetting, water-thinned, hydrolysis-resistant; thermosetting aq. alkyd resin-urethane coatings with good hydrolysis resistance)
IT 115-77-5DP, Pentaerythritol, polymers **115-84-4DP**, 2-Ethyl-2-butyl-1,3-propanediol, polymers 121-91-5DP, Isophthalic acid, polymers 126-30-7DP, Neopentyl glycol, polymers 629-11-8DP, 1,6-Hexanediol, polymers 4767-03-7DP, Dimethylolpropionic acid, polymers 9004-74-4DP, Polyethylene glycol monomethyl ether, polymers 25068-38-6DP, Epikote 1001, reaction products with alkyd resins, dimethylolpropionic acid, TDI, and neopentyl glycol 25322-69-4DP, Polypropylene glycol, polymers 26471-62-5DP, TDI, polymers 27193-25-5DP, Cyclohexanedimethanol, polymers 138988-50-8DP, Elastron BN 69, polymers
(thermosetting aq. alkyd resin-urethane coatings with good hydrolysis resistance)

=> d l62 1-9 ibib abs hitstr hitind

L62 ANSWER 1 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 133:18835 HCA
TITLE: Water-thinned, 3-component coating compositions containing polyisocyanates and isocyanate-reactive components and their use
INVENTOR(S): Meisenburg, Uwe; Rink, Heinz-Peter
PATENT ASSIGNEE(S): Basf Coatings A.-G., Germany
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19855146	A1	20000531	DE 1998-19855146	19981130
WO 2000032666	A1	20000608	WO 1999-EP8061	19991025

W: BR, JP, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: DE 1998-19855146 19981130
AB Three-component coating systems have .gtoreq.1 polymer with NCO-reactive groups in 1 nonaq. component, .gtoreq.1 polyisocyanate crosslinker in another nonaq. component, and a 3rd component contg. water, with .gtoreq.1 portion of .gtoreq.1 of the components being crosslinkable by light and(or) electron radiation. A typical coating compn. was manufd. by mixing a compn. contg. 1.36:7.13:9.56:3.16:5.72:5.96 acrylic acid (I)-Bu methacrylate

(II)-hydroxyethyl acrylate (III)-lauryl methacrylate-Me methacrylate (IV)-styrene copolymer 70.44, Laromer R8987 (polyurethane acrylate) 40, dibasic ester mixt. 4.24, ethylene glycol Bu ether acetate (V) 12.76, wetting agent 4.24, flow-control agent 0.88, silicone additive 0.88, F-contg. flow-control agent 2.52, light stabilizer 3.04, and photoinitiator 1.4 parts with a compn. contg. 44.5 parts Desmodur 2025/1 (HDI-based polyisocyanate) and 6.44 parts V and a compn. contg. water 72.48, dimethylethanolamine 1.76, 39% solids 58:255:215:113:113:197:181 I-II-III-hydroxyethyl methacrylate-Methacrylester C13-IV-styrene copolymer dimethylethanolamine salt dispersion 44.8, and 36.1% polyester-polyurethane dispersion (prepd. by reaction of 2-butyl-2-ethyl-1,3-propanediol (VI) 6.6, dimethylolpropionic acid 69, m-tetramethylxylylene diisocyanate 318, and trimethylolpropane 101 g with 749 g polyester prepd by polymn. of neopentyl glycol bis(hydroxypivalate) 1088, phthalic anhydride 120, isophthalic acid 1268, VI 21, and neopentyl glycol 489 g and neutralization with dimethylethanolamine) 89.52 parts.

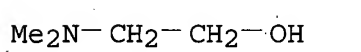
IT **272126-99-5P**
(cured coating; water-thinned, 3-component coating compns. contg. polyisocyanates and isocyanate-reactive components for radiation-thermal-curable films)

RN 272126-99-5 HCA

CN 1,3-Benzenedicarboxylic acid, polymer with 1,3-bis(1-isocyanato-1-methylethyl)benzene, 2-butyl-2-ethyl-1,3-propanediol, butyl 2-methyl-2-propenoate, Desmodur 2025/1, 2,2-dimethyl-1,3-propanediol, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 3-hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropanoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 1,3-isobenzofurandione, Methacrylester C 13, methyl 2-methyl-2-propenoate and 2-propenoic acid, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O



CM 2

CRN 272126-98-4
CMF (C16 H30 O2 . C14 H16 N2 O2 . C10 H20 O4 . C9 H20 O2 . C8 H14 O2 . C8 H8 . C8 H6 O4 . C8 H4 O3 . C6 H14 O3 . C6 H10 O3 . C5 H12 O2 . C5 H10 O4 . C5 H8 O3 . C5 H8 O2 . C3 H4 O2 . Unspecified . Unspecified)x

CCI PMS

CM 3

CRN 213388-17-1
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

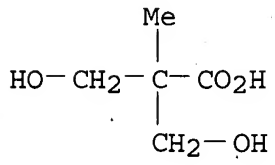
CM 4

CRN 128282-21-3
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

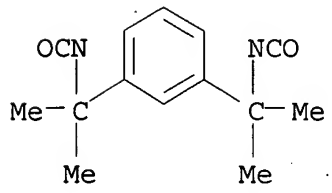
CM 5

CRN 4767-03-7
CMF C5 H10 O4



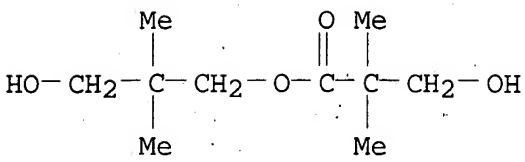
CM 6

CRN 2778-42-9
CMF C14 H16 N2 O2



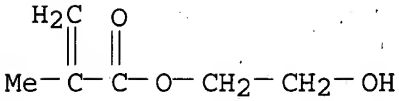
CM 7

CRN 1115-20-4
CMF C10 H20 O4



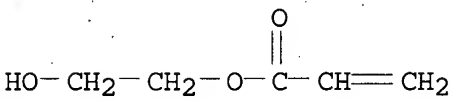
CM 8

CRN 868-77-9
CMF C6 H10 O3



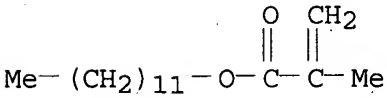
CM 9

CRN 818-61-1
CMF C5 H8 O3



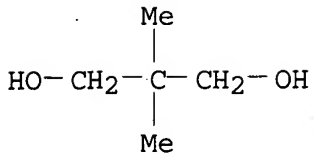
CM 10

CRN 142-90-5
CMF C16 H30 O2



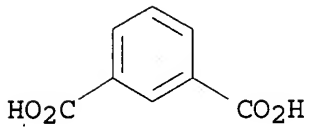
CM 11

CRN 126-30-7
CMF C5 H12 O2



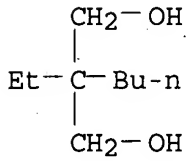
CM 12

CRN 121-91-5
CMF C8 H6 O4



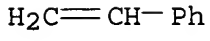
CM 13

CRN 115-84-4
CMF C9 H20 O2



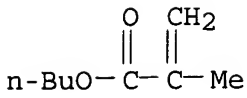
CM 14

CRN 100-42-5
CMF C8 H8



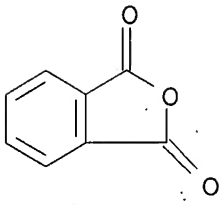
CM 15

CRN 97-88-1
CMF C8 H14 O2



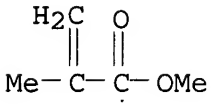
CM 16

CRN 85-44-9
CMF C8 H4 O3



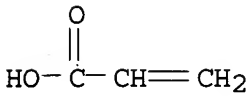
CM 17

CRN 80-62-6
CMF C5 H8 O2



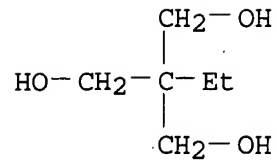
CM 18

CRN 79-10-7
CMF C3 H4 O2



CM 19

CRN 77-99-6
CMF C6 H14 O3



IC ICM C09D175-04
ICS C09D133-04; C09D167-06; C09D163-10; C09D171-00; C09D161-28; C09D183-07
CC 42-7 (Coatings, Inks, and Related Products)
IT **Coating materials**
(photocurable, water-thinned; water-thinned, 3-component coating compns. contg. polyisocyanates and isocyanate-reactive components for radiation-thermal-curable films)
IT **272126-99-5P**
(cured coating; water-thinned, 3-component coating compns. contg. polyisocyanates and isocyanate-reactive components for radiation-thermal-curable films)
REFERENCE COUNT: 1
REFERENCE(S): (1) Anon; US 4425472 HCA

L62 ANSWER 2 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 133:18824 HCA
TITLE: coating systems containing a nonaqueous polyisocyanate-based crosslinking component, a nonaqueous isocyanate-reactive polymer or oligomer component, and a water component
INVENTOR(S): Loecken, Wilma; Rink, Heinz-Peter
PATENT ASSIGNEE(S): Basf Coatings A.-G., Germany
SOURCE: Ger. Offen., 20 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19855167	A1	20000531	DE 1998-19855167	19981130
WO 2000032667	A1	20000608	WO 1999-EP8855	19991118

W: BR, JP, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: DE 1998-19855167 19981130
AB The transparency and gasoline resistance are improved by addn. of .gtoreq.1 (a)cyclic C9-16 alkanepolyol to the NCO-reactive polymer or oligomer component or water component of title systems.
IT **272126-99-5P**
(crosslinked coating; water-thinned polyisocyanate-crosslinked coatings contg. alkanepolyols for improved transparency and

gasoline resistance)
RN 272126-99-5 HCA
CN 1,3-Benzenedicarboxylic acid, polymer with 1,3-bis(1-isocyanato-1-methylethyl)benzene, 2-butyl-2-ethyl-1,3-propanediol, butyl 2-methyl-2-propenoate, Desmodur 2025/1, 2,2-dimethyl-1,3-propanediol, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 3-hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropanoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 1,3-isobenzofurandione, Methacrylester C 13, methyl 2-methyl-2-propenoate and 2-propenoic acid, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O

$Me_2N-CH_2-CH_2-OH$

CM 2

CRN 272126-98-4
CMF (C16 H30 O2 . C14 H16 N2 O2 . C10 H20 O4 . C9 H20 O2 . C8 H14 O2 . C8 H8 . C8 H6 O4 . C8 H4 O3 . C6 H14 O3 . C6 H10 O3 . C5 H12 O2 . C5 H10 O4 . C5 H8 O3 . C5 H8 O2 . C3 H4 O2 . Unspecified . Unspecified)x
CCI PMS

CM 3

CRN 213388-17-1
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

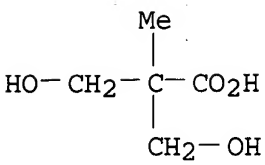
CRN 128282-21-3
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 5

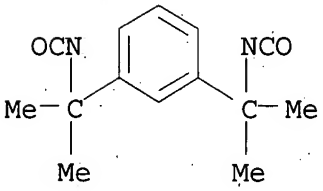
CRN 4767-03-7

CMF C5 H10 O4



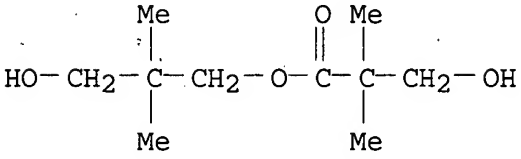
CM 6

CRN 2778-42-9
CMF C14 H16 N2 O2



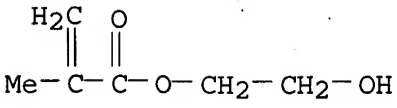
CM 7

CRN 1115-20-4
CMF C10 H20 O4



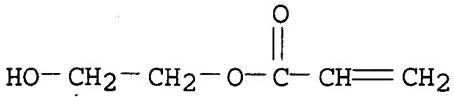
CM 8

CRN 868-77-9
CMF C6 H10 O3



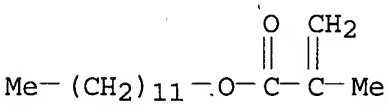
CM 9

CRN 818-61-1
CMF C5 H8 O3



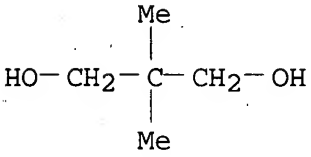
CM 10

CRN 142-90-5
CMF C16 H30 O2



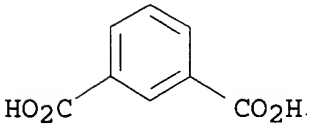
CM 11

CRN 126-30-7
CMF C5 H12 O2



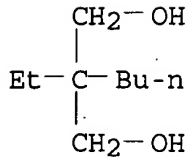
CM 12

CRN 121-91-5
CMF C8 H6 O4



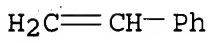
CM 13

CRN 115-84-4
CMF C9 H20 O2



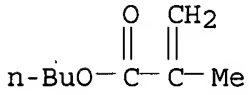
CM 14

CRN 100-42-5
CMF C8 H8



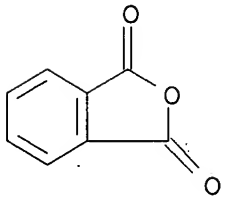
CM 15

CRN 97-88-1
CMF C8 H14 O2



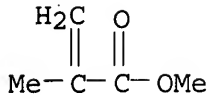
CM 16

CRN 85-44-9
CMF C8 H4 O3



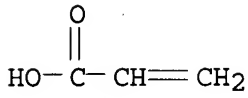
CM 17

CRN 80-62-6
CMF C5 H8 O2



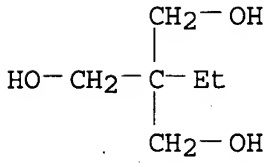
CM 18

CRN 79-10-7
CMF C3 H4 O2



CM 19

CRN 77-99-6
CMF C6 H14 O3



IC ICM C09D175-04
ICS C09D133-14; C09D167-00
CC 42-5 (Coatings, Inks, and Related Products)
IT **Coating materials**
(solvent-resistant; water-thinned polyisocyanate-crosslinked coatings contg. alkanepolyols for improved transparency and gasoline resistance)
IT **Coating materials**
(transparent; water-thinned polyisocyanate-crosslinked coatings contg. alkanepolyols for improved transparency and gasoline resistance)
IT **Coating materials**
(water-thinned; water-thinned polyisocyanate-crosslinked coatings contg. alkanepolyols for improved transparency and gasoline resistance)

IT **272126-99-5P**
(crosslinked coating; water-thinned polyisocyanate-crosslinked coatings contg. alkanepolyols for improved transparency and gasoline resistance)
REFERENCE COUNT: 1
REFERENCE(S): (1) Anon; DE 4410609 A1 HCA

L62 ANSWER 3 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 130:26291 HCA
TITLE: Coating composition based on a hydroxy group-containing film forming polymer, a polyisocyanate compound, and a diol
INVENTOR(S): Vandevoorde, Paul Marie; Van Engelen, Antonius Hendrikus Gerardus; Lemaire, Ann Alfred Johanna
PATENT ASSIGNEE(S): Akzo Nobel N.V., Neth.
SOURCE: PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9853013	A1	19981126	WO 1998-EP3024	19980519
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 983323	A1	20000308	EP 1998-932070	19980519
R: DE, FR, GB, IT, NL				
PRIORITY APPLN. INFO.:			EP 1997-201511	19970521
			WO 1998-EP3024	19980519

AB The invention relates to a coating compn. comprising a hydroxy group-contg. film-forming polymer with a hydroxy value between 75 and 300 mg KOH/g solid resin, a polyisocyanate compd., and a diol HO-CH2-CR(C2H5)-CH2-OH, wherein R is an alkyl group having 3-6 carbon atoms. The invention further relates to a method of coating which comprises the coating compn. being applied to a substrate, and to a coated substrate, in particular cars and large transport vehicles.
IT **216514-44-2P 216514-46-4P**
(coating compn. based on a hydroxy group-contg. film forming polymer, a polyisocyanate compd., and a diol)
RN 216514-44-2 HCA
CN 2-Propenoic acid, 2-methyl-, polymer with 2-butyl-2-ethyl-1,3-propanediol, butyl 2-methyl-2-propenoate, butyl 2-propenoate, Desmodur LS 2025, ethenylbenzene, 2-hydroxypropyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

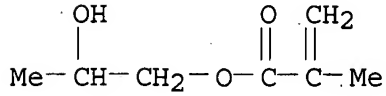
CM 1

CRN 195215-43-1
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

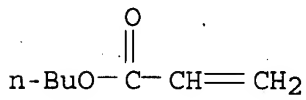
CM 2

CRN 923-26-2
CMF C7 H12 O3



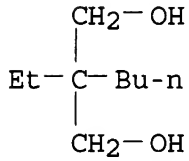
CM 3

CRN 141-32-2
CMF C7 H12 O2



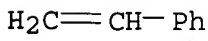
CM 4

CRN 115-84-4
CMF C9 H20 O2



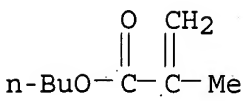
CM 5

CRN 100-42-5
CMF C8 H8



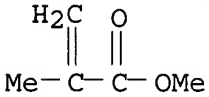
CM 6

CRN 97-88-1
CMF C8 H14 O2



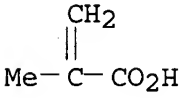
CM 7

CRN 80-62-6
CMF C5 H8 O2



CM 8

CRN 79-41-4
CMF C4 H6 O2



RN 216514-46-4 HCA
CN 2-Propenoic acid, 2-methyl-, polymer with 2-butyl-2-ethyl-1,3-propanediol, butyl 2-methyl-2-propenoate, butyl 2-propenoate, Desmodur LS 2025, ethenylbenzene, hexahydro-1,3-isobenzofurandione, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

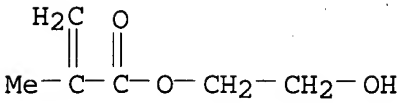
CM 1

CRN 195215-43-1
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

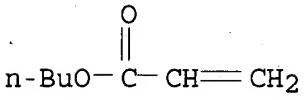
CM 2

CRN 868-77-9
CMF C6 H10 O3



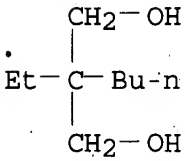
CM 3

CRN 141-32-2
CMF C7 H12 O2



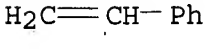
CM 4

CRN 115-84-4
CMF C9 H20 O2



CM 5

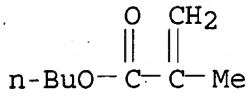
CRN 100-42-5
CMF C8 H8



CM 6

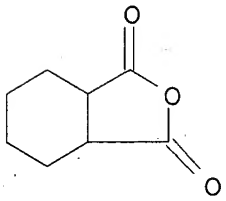
CRN 97-88-1

CMF C8 H14 O2



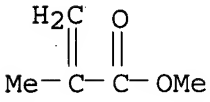
CM 7

CRN 85-42-7
CMF C8 H10 O3



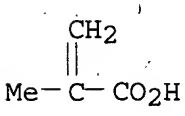
CM 8

CRN 80-62-6
CMF C5 H8 O2



CM 9

CRN 79-41-4
CMF C4 H6 O2



IC ICM C09D005-00
ICS C09D175-04; C08G018-65
CC 42-10 (Coatings, Inks, and Related Products)
ST polyisocyanate hydroxy polymer diol **clear coating**

compn; butylethylpropanediol **clear coating**
compn; polyester polyurethane **cl ar coating**

IT **Coatings**
Transparent coatings
(coating compn. based on a hydroxy group-contg. film forming polymer, a polyisocyanate compd., and a diol)

IT **216514-44-2P 216514-46-4P**
(coating compn. based on a hydroxy group-contg. film forming polymer, a polyisocyanate compd., and a diol)

REFERENCE COUNT: 5
REFERENCE(S):
(1) Chisso Corp; JP 04050221 A 1992
(2) Chisso Corp; JP 04309569 A 1992
(3) Nippon Polyurethane Kogyo KK; EP 0645411 A 1995
(4) Nippon Shokubai Co Ltd; JP 08059784 A
(5) Union Carbide Chem Plastic; WO 9716466 A 1997

L62 ANSWER 4 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 127:6184 HCA
TITLE: Coating compositions containing at least 3 components and their manufacture and use
INVENTOR(S): Mayer, Bernd; Nienhaus, Egbert; Rink, Heinz-Peter; Meisenburg, Uwe
PATENT ASSIGNEE(S): Basf Lacke + Farben Ag, Germany
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19542626	A1	19970424	DE 1995-19542626	19951115
CA 2235077	AA	19970424	CA 1996-2235077	19961017
WO 9714731	A1	19970424	WO 1996-EP4473	19961017
W: BR, CA, CN, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 856019	A1	19980805	EP 1996-934685	19961017
EP 856019	B1	19990922		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
CN 1200130	A	19981125	CN 1996-197678	19961017
AT 184888	E	19991015	AT 1996-934685	19961017
JP 11513721	T2	19991124	JP 1996-515513	19961017
ES 2139390	T3	20000201	ES 1996-934685	19961017
BR 9610946	A	19990713	BR 1996-10946	19980420
PRIORITY APPLN. INFO.:			DE 1995-19538956	19951019
			DE 1995-19542626	19951115
			WO 1996-EP4473	19961017

AB Coating compns. giving high-gloss films with good flow, useful for

repairing automobile coatings, for coating of plastics, and for topcoats and surface fillers, are prepd. from 3-4 components. One component (A) is composed of (A1) .gtoreq.1 neutralizable, solvent- and(or) water-thinnable OH and acid group-contg. acrylate copolymer with no.-av. mol. wt. 1000-30,000, OH no. 40-200 mg KOH/g, and acid no. 5-150 mg KOH/g and(or) (A2) .gtoreq.1 neutralizable, solvent- and(or) water-thinnable OH and acid group-contg. polyester with no.-av. mol. wt. 1000-30,000, OH no. 30-250 mg KOH/g, and acid no. 5-150 mg KOH/g, and(or) (A3) neutralizable, solvent- and(or) water-thinnable OH and acid group-contg. polyurethane with no.-av. mol. wt. 1000-30,000, OH no. 30-250 mg KOH/g, and acid no. 5-150 mg KOH/g, whereby (A1), (A2), and (A3) are so selected that a 50% soln. of (A) in ethoxyethyl propionate is .ltoreq.6 dPa s. Another component is a crosslinker and is based on .gtoreq.1 solvent-thinnable di- and(or) polyisocyanate and(or) .gtoreq.1 other crosslinker based on an epoxide compd. having .gtoreq.2 epoxide groups and(or) an aminoplast. Another component is based on component (A1) and(or) (A2) and(or) (A3) in an aq. dispersion. The coating compns. are manufd. by mixing (A) in a solvent, and then adding the crosslinker and the 3rd component. A typical coating compn. was manufd. by mixing a compn. contg. 54:285:382:640:229:238 acrylic acid-Bu acrylate-hydroxyethyl acrylate-lauryl methacrylate-Me methacrylate-styrene copolymer (I) 14, ethylene glycol mono-Bu ether acetate 3.6, ethylene glycol mono-bu ether 3, wetting agent 1, and flow-control agent 0.8 parts with a crosslinker contg. allophanate-based HDI polyisocyanate 2.9, HDI-based isocyanurate trimer 10.7, and ethoxyethyl propionate 1.6 parts, followed by addn. of a 3rd component contg. water 29, dimethylethanolamine 0.45, thickener 1.9, 38% solids I dispersion 8.9, 36% solids 27.6:69:489:1088:1268:120:318:101 2-butyl-2-ethylpropanediol-dimethylolpropionic acid-neopentyl glycol-neopentyl glycol hydroxypivalate-isophthalic acid-phthalic anhydride-m-tetramethylxylylene diisocyanate-trimethylolpropane copolymer dispersion 17.5 parts.

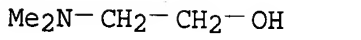
IT **190073-56-4P**
(coating compns. contg. at least 3 components for high-gloss films with good flow)

RN 190073-56-4 HCA

CN 1,3-Benzenedicarboxylic acid, polymer with 1,3-bis(1-isocyanato-1-methylethyl)benzene, 2-butyl 2-ethyl-1,3-propanediol, butyl 2-methyl-2-propenoate, Desmodur VPLS 2102, 2,2-dimethyl-1,3-propanediol, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 3-hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropanoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 1,3-isobenzofurandione, methyl 2-methyl-2-propenoate, 2-propenoic acid and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O



CM 2

CRN 190073-55-3
CMF (C24 H36 N6 O6 . C16 H30 O2 . C14 H16 N2 O2 . C10 H20 O4 . C9 H20 O2 . C8 H14 O2 . C8 H8 . C8 H6 O4 . C8 H4 O3 . C6 H14 O3 . C6 H10 O3 . C5 H12 O2 . C5 H10 O4 . C5 H8 O3 . C5 H8 O2 . C3 H4 O2 . Unspecified)x
CCI PMS

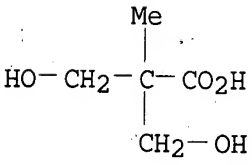
CM 3

CRN 174594-29-7
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

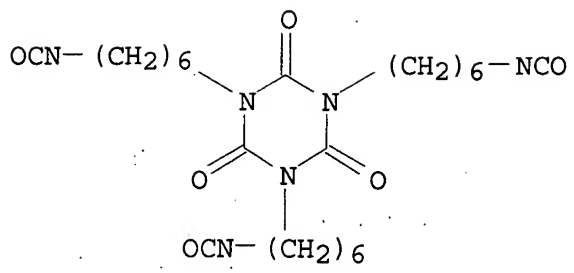
CM 4

CRN 4767-03-7
CMF C5 H10 O4



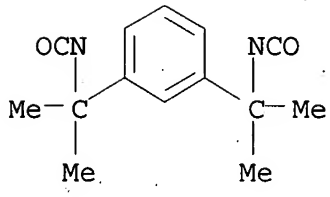
CM 5

CRN 3779-63-3
CMF C24 H36 N6 O6



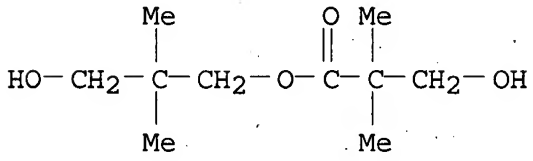
CM 6

CRN 2778-42-9
CMF C14 H16 N2 O2



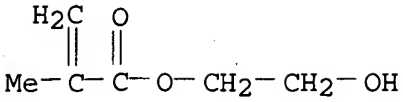
CM 7

CRN 1115-20-4
CMF C10 H20 O4



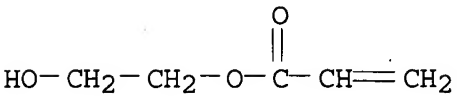
CM 8

CRN 868-77-9
CMF C6 H10 O3



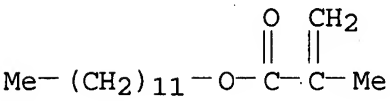
CM 9

CRN 818-61-1
CMF C5 H8 O3



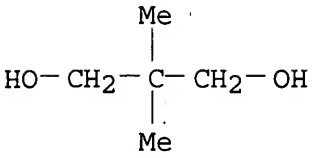
CM 10

CRN 142-90-5
CMF C16 H30 O2



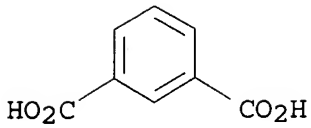
CM 11

CRN 126-30-7
CMF C5 H12 O2



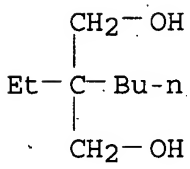
CM 12

CRN 121-91-5
CMF C8 H6 O4



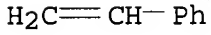
CM 13

CRN 115-84-4
CMF C9 H20 O2



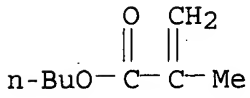
CM 14

CRN 100-42-5
CMF C8 H8



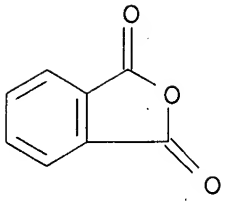
CM 15

CRN 97-88-1
CMF C8 H14 O2



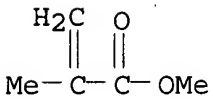
CM 16

CRN 85-44-9
CMF C8 H4 O3



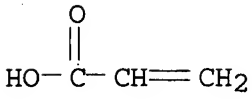
CM 17

CRN 80-62-6
CMF C5 H8 O2



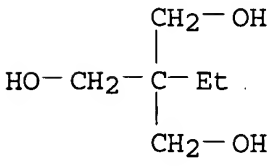
CM 18

CRN 79-10-7
CMF C3 H4 O2



CM 19

CRN 77-99-6
CMF C6 H14 O3

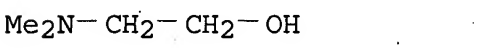


IT **190073-54-2P**
(cured coating; coating compns. contg. at least 3 components for high-gloss films with good flow)
RN 190073-54-2 HCA

CN 1,3-Benzenedicarboxylic acid, polymer with 1,3-bis(1-isocyanato-1-methylethyl)benzene, 2-butyl-2-ethyl-1,3-propanediol, butyl 2-methyl-2-propenoate, Desmodur VPLS 2102, 2,2-dimethyl-1,3-propanediol, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 3-hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropanoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 1,3-isobenzofurandione, methyl 2-methyl-2-propenoate, 2-propenoic acid and Tolonate HDT-LV, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O



CM 2

CRN 190073-53-1
CMF (C16 H30 O2 . C14 H16 N2 O2 . C10 H20 O4 . C9 H20 O2 . C8 H14 O2 . C8 H8 . C8 H6 O4 . C8 H4 O3 . C6 H14 O3 . C6 H10 O3 . C5 H12 O2 . C5 H10 O4 . C5 H8 O3 . C5 H8 O2 . C3 H4 O2 . Unspecified . Unspecified)x
CCI PMS

CM 3

CRN 174594-29-7
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

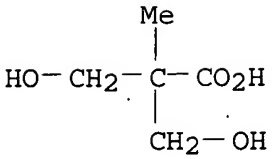
CM 4

CRN 138861-14-0
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

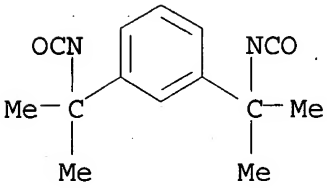
CM 5

CRN 4767-03-7
CMF C5 H10 O4



CM 6

CRN 2778-42-9
CMF C14 H16 N2 O2



CM 7

CRN 1115-20-4
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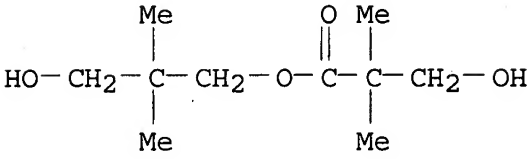
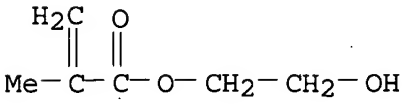


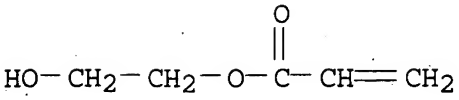
CM 8

CRN 868-77-9
CMF C6 H10 O3



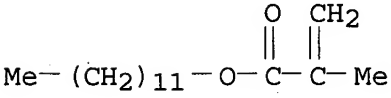
CM 9

CRN 818-61-1
CMF C5 H8 O3



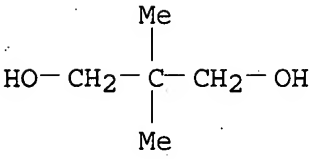
CM 10

CRN 142-90-5
CMF C16 H30 O2



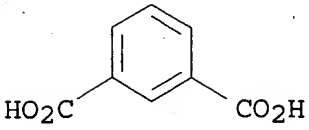
CM 11

CRN 126-30-7
CMF C5 H12 O2



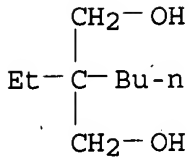
CM 12

CRN 121-91-5
CMF C8 H6 O4



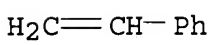
CM 13

CRN 115-84-4
CMF C9 H20 O2



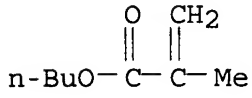
CM 14

CRN 100-42-5
CMF C8 H8



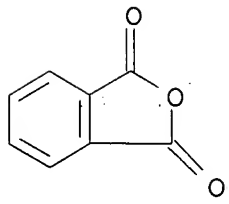
CM 15

CRN 97-88-1
CMF C8 H14 O2



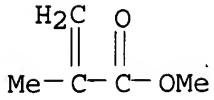
CM 16

CRN 85-44-9
CMF C8 H4 O3



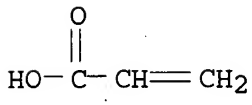
CM 17

CRN 80-62-6
CMF C5 H8 O2



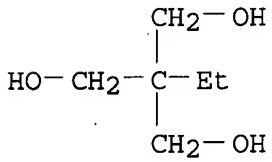
CM 18

CRN 79-10-7
CMF C3 H4 O2



CM 19

CRN 77-99-6
CMF C6 H14 O3



IC ICM C09D175-04
ICS C09D133-04; C09D167-00; C09D005-02; C08G063-12; C08G063-20; C08G018-32; C08G018-72; C08G018-10; C08F220-18; B05D007-16
ICA C08G063-40
ICI C09D175-04, C09D163-00, C09D161-20; C09D133-04, C09D167-00, C09D175-04, C09D167-06, C09D175-14
CC 42-10 (Coatings, Inks, and Related Products)
IT **Coatings**
(coating compns. contg. at least 3 components for high-gloss films with good flow)
IT **190073-56-4P**
(coating compns. contg. at least 3 components for high-gloss films with good flow)
IT **190073-54-2P**
(cured coating; coating compns. contg. at least 3 components for high-gloss films with good flow)

L62 ANSWER 5 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 123:202333 HCA
TITLE: Aqueous coating composition for intercoating and topcoating of motor vehicles
INVENTOR(S): Nishi, Tadahiko; Ogawa, Hideaki; Tanabe, Hisaki; Takeuchi, Kunihiko
PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

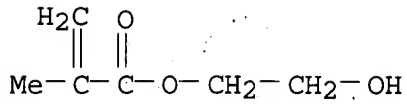
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 638621	A1	19950215	EP 1994-305920	19940810
EP 638621	B1	19971112		
R: DE, FR, GB				
CA 2129720	AA	19950211	CA 1994-2129720	19940808
AU 9468995	A1	19950223	AU 1994-68995	19940809
AU 674587	B2	19970102		
US 5525670	A	19960611	US 1994-287902	19940809
JP 08012925	A2	19960116	JP 1994-188215	19940810
PRIORITY APPLN. INFO.:			JP 1993-198329	19930810
			JP 1994-91796	19940428

AB The coating compn. has improved workability (e.g., pinhole resistance, sagging resistance) and smoothness, and comprises (A) an acrylic resin and/or a polyester having acid value 10-100, hydroxyl value 20-300 and no. av.-mol. wt. 1,000-50,000; (B) an OH-terminated polycarbonate having no. av.-mol. wt. 1000-10,000; and (C) a curing agent (e.g., melamine resin). The coating is applied in a 2-coat/1-bake process, where pigmented coating is applied and then coated wet-on-wet with clear topcoating, then both are cured simultaneously.

IT **168261-13-0**
(aq. coatings for automotive vehicles)
RN 168261-13-0 HCA
CN 2-Propenoic acid, 2-methyl-, polymer with 2-butyl-2-ethyl-1,3-propanediol, butyl 2-propenoate, dimethyl carbonate, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, formaldehyde, 2-hydroxyethyl 2-methyl-2-propenoate, 2-methoxyethanol, methyl 2-methyl-2-propenoate, 2-propenamide and 1,3,5-triazine-2,4,6-triamine (9CI) (CA INDEX NAME)

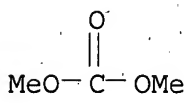
CM 1

CRN 868-77-9
CMF C6 H10 O3



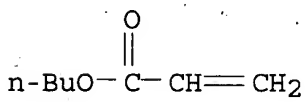
CM 2

CRN 616-38-6
CMF C3 H6 O3



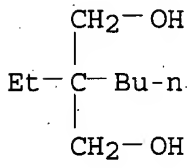
CM 3

CRN 141-32-2
CMF C7 H12 O2



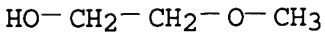
CM 4

CRN 115-84-4
CMF C9 H20 O2



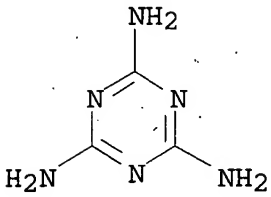
CM 5

CRN 109-86-4
CMF C3 H8 O2



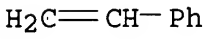
CM 6

CRN 108-78-1
CMF C3 H6 N6



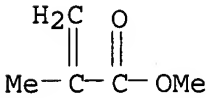
CM 7

CRN 100-42-5
CMF C8 H8



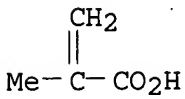
CM 8

CRN 80-62-6
CMF C5 H8 O2



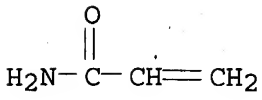
CM 9

CRN 79-41-4
CMF C4 H6 O2



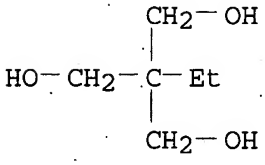
CM 10

CRN 79-06-1
CMF C3 H5 N O



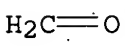
CM 11

CRN 77-99-6
CMF C6 H14 O3



CM 12

CRN 50-00-0
CMF C H2 O



IC ICM C09D133-06
ICS C09D167-00; C09D169-00
CC 42-10 (Coatings, Inks, and Related Products)
IT **Coating materials**
(water-thinned, coatings, fatty acid-modified alkyd resins and acrylic resins and polyester resins)
IT 168261-08-3 168261-09-4 168261-10-7 168261-11-8 168261-12-9
168261-13-0 168261-14-1 168261-15-2 168261-16-3
(aq. coatings for automotive vehicles)
IT 70677-00-8, Butyl acrylate-2-hydroxyethyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer
(**clear coating**; on aq. coatings contg. acrylic resins, polycarbonates and polyesters)

L62 ANSWER 6 OF 9 HCA COPYRIGHT 2000 ACS

ACCESSION NUMBER: 122:136251 HCA
TITLE: Scratch-resistant aqueous compositions for beverage or food cans
INVENTOR(S): Yamada, Takashi; Tsuyama, Takeshi
PATENT ASSIGNEE(S): Toyo Mfg Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06172698	A2	19940621	JP 1992-351977	19921209
JP 2884973	B2	19990419		

AB Title compns. contain low amts. (preferably, <20%) of org. solvents and polymer components comprising COOH-contg. polymers (acid value 30-150) 5-50, aminoplasts 20-60, and acid anhydride ester-modified epoxy resin-based graft vinyl polymer blends 5-70%. An aq. compn. contained 1,4-butane diol-Bu Et propane diol-diethylene glycol-hexahydrophthalic anhydride-isophthalic acid-trimethylolpropane copolymer 15, Cymel 303 25, Cymel 1123 10, and a graft polymer (prepd. by polymg. Et acrylate, 2-hydroxyethyl acrylate, and methacrylic acid in the presence of Rikacid MH 700-modified Epikote 1010) 50 parts.

IT **160877-22-5 160909-55-7**
(scratch-resistant; aq. coatings contg. carboxy-contg. resins and aminoplasts and acrylic polyester epoxy resins for beverage cans)

RN 160877-22-5 HCA
CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-butanediol, 2-butyl-2-ethyl-1,3-propanediol, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, ethyl 2-propenoate, hexahydro-1,3-isobenzofurandione, hexahydro-5-methyl-1,3-isobenzofurandione, 2-hydroxyethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, N-(methoxymethyl)-2-propenamide, 2,2'-oxybis[ethanol], Pheno Tohto YP 50S and 2-propenoic acid (9CI) (CA INDEX NAME)

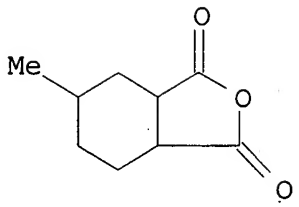
CM 1

CRN 157481-46-4
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

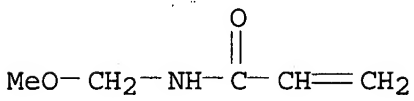
CM 2

CRN 19438-60-9
CMF C9 H12 O3



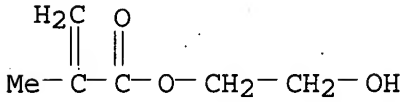
CM 3

CRN 3644-11-9
CMF C5 H9 N O2



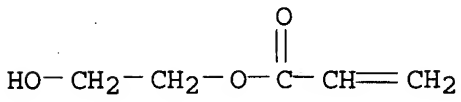
CM 4

CRN 868-77-9
CMF C6 H10 O3



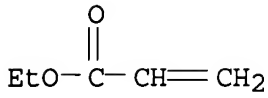
CM 5

CRN 818-61-1
CMF C5 H8 O3



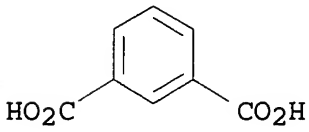
CM 6

CRN 140-88-5
CMF C5 H8 O2



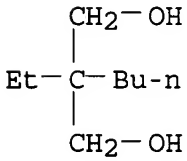
CM 7

CRN 121-91-5
CMF C8 H6 O4



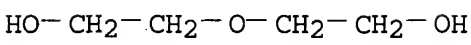
CM 8

CRN 115-84-4
CMF C9 H20 O2



CM 9

CRN 111-46-6
CMF C4 H10 O3



CM 10

CRN 110-63-4
CMF C4 H10 O2

HO— $(CH_2)_4$ — OH

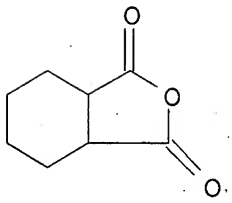
CM 11

CRN 100-42-5
CMF C8 H8

H_2C═ CH— Ph

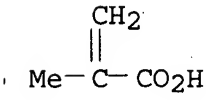
CM 12

CRN 85-42-7
CMF C8 H10 O3



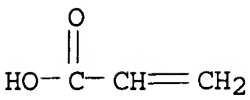
CM 13

CRN 79-41-4
CMF C4 H6 O2



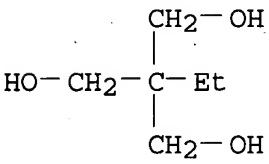
CM 14

CRN 79-10-7
CMF C3 H4 O2



CM 15

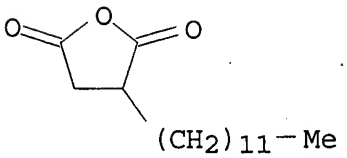
CRN 77-99-6
CMF C6 H14 O3



RN 160909-55-7 HCA
CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-butanediol, 2-butyl-2-ethyl-1,3-propanediol, (chloromethyl)oxirane, 3-dodecyldihydro-2,5-furandione, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, ethyl 2-propenoate, hexahydro-1,3-isobenzofurandione, 2-hydroxyethyl 2-methyl-2-propenoate, 4,4'-(1-methylethylidene)bis[phenol], methyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

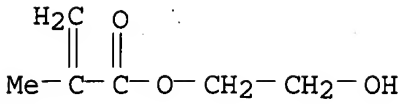
CM 1

CRN 2561-85-5
CMF C16 H28 O3



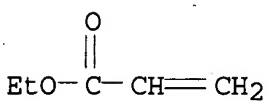
CM 2

CRN 868-77-9
CMF C6 H10 O3



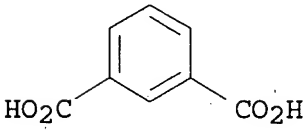
CM 3

CRN 140-88-5
CMF C5 H8 O2



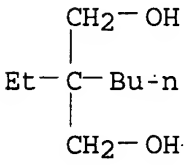
CM 4

CRN 121-91-5
CMF C8 H6 O4



CM 5

CRN 115-84-4
CMF C9 H20 O2



CM 6

CRN 111-46-6
CMF C4 H10 O3

$HO-CH_2-CH_2-O-CH_2-CH_2-OH$

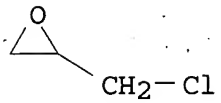
CM 7

CRN 110-63-4
CMF C4 H10 O2

$HO-(CH_2)_4-OH$

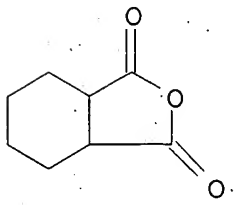
CM 8

CRN 106-89-8
CMF C3 H5 Cl O



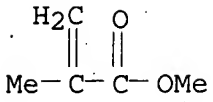
CM 9

CRN 85-42-7
CMF C8 H10 O3



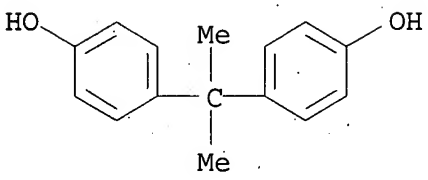
CM 10

CRN 80-62-6
CMF C5 H8 O2



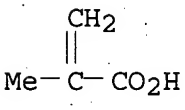
CM 11

CRN 80-05-7
CMF C15 H16 O2



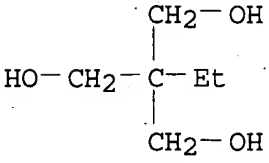
CM 12

CRN 79-41-4
CMF C4 H6 O2



CM 13

CRN 77-99-6
CMF C6 H14 O3



IC ICM C09D163-00
ICS C08G059-16; C09D151-00; C09D161-20; C09D201-08
CC 42-10 (Coatings, Inks, and Related Products)
IT **Coating materials**
(scratch-resistant, aq. coatings contg. carboxy-contg. resins and

aminoplasts and acrylic polyester epoxy resins for beverage cans)
IT 160877-20-3 160877-21-4 **160877-22-5** 160877-23-6
160877-24-7 **160909-55-7**
(scratch-resistant; aq. coatings contg. carboxy-contg. resins and aminoplasts and acrylic polyester epoxy resins for beverage cans)

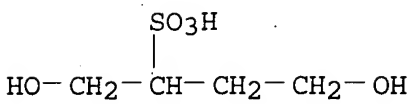
L62 ANSWER 7 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 120:166928 HCA
TITLE: Polyurethane-vinyl polymer block copolymer-containing magnetic coatings
INVENTOR(S): Kinoshita, Koji; Nakama, Yasutaka; Komazaki, Shigeru; Oooka, Masataka
PATENT ASSIGNEE(S): Dainippon Ink & Chemicals, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05230399	A2	19930907	JP 1992-31965	19920219

AB Title coatings contain magnetic powders, title block copolymers, and polyester-polyurethanes. A compn. contg. Fe-Ni alloy powders, Burnock D 750, adipic acid-1,4-butylene glycol-TDI copolymer, and a block copolymer prepd. from styrene, Me methacrylate, 2-hydroxyethyl methacrylate, 2-acrylamido-2-methylpropanesulfonic acid, and azobiscyanopropanol-dipropylene glycol-HMDI copolymer gave a film with good smoothness, abrasion resistance, and durability under heat and moisture.
IT **153254-00-3P**
(prepn. of, magnetic coatings contg., with polyester-polyurethanes and/or polyisocyanate)
RN 153254-00-3 HCA
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-butyl-2-ethyl-1,3-propanediol, 1,4-dihydroxy-2-butanesulfonic acid monosodium salt, 1,6-diisocyanatohexane, ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt, block (9CI) (CA INDEX NAME)

CM 1

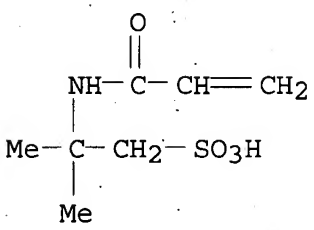
CRN 35430-88-7
CMF C4 H10 O5 S . Na



● Na

CM 2

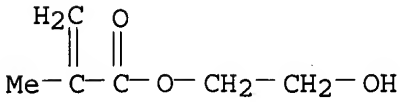
CRN 5165-97-9
CMF C7 H13 N O4 S . Na



● Na

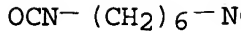
CM 3

CRN 868-77-9
CMF C6 H10 O3



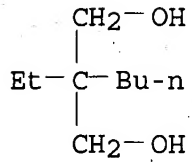
CM 4

CRN 822-06-0
CMF C8 H12 N2 O2



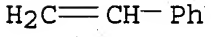
CM 5

CRN 115-84-4
CMF C9 H20 O2



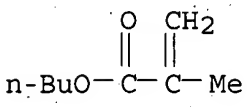
CM 6

CRN 100-42-5
CMF C8 H8



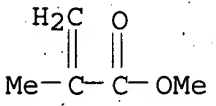
CM 7

CRN 97-88-1
CMF C8 H14 O2



CM 8

CRN 80-62-6
CMF C5 H8 O2



IC ICM C09D005-23

ICS C09D175-04; G11B005-702
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 77
IT **Coating materials**
(abrasion-resistant, magnetic, acrylic urethane block polymer-contg., with polyester-polyurethanes and magnetic powder)
IT 153253-94-2P 153253-95-3P 153253-96-4P 153253-97-5P
153253-98-6P 153253-99-7P **153254-00-3P**
(prepn. of, magnetic coatings contg., with polyester-polyurethanes and/or polyisocyanate)

L62 ANSWER 8 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 120:109037 HCA
TITLE: Vinyl polymer-polyurethane block copolymer binders for magnetic coatings
INVENTOR(S): Kinoshita, Koji; Komazaki, Shigeru; Oooka, Masataka
PATENT ASSIGNEE(S): Dainippon Ink & Chemicals, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05171071	A2	19930709	JP 1991-343064	19911225

AB Magnetic coatings with good abrasion resistance, smoothness, and luster are prepd. by using binders comprising vinyl polymer-polyurethane block copolymers contg. groups SO3X and/or CO2X (X = quaternary ammonium group). A compn. contg. Fe-Ni powder, Me4NOH-neutralized Me methacrylate-tert-Bu methacrylate-2-hydroxyethyl methacrylate-2-acrylamido-2-methylpropanesulfonic acid block copolymer, and HMDI-azobis(cyanopropanol)-dipropylene glycol copolymer initiator was used to prep. magnetic coatings.
IT **152690-04-5D**, quaternary ammonium salts
(magnetic coatings contg., smooth, abrasion-resistant)
RN 152690-04-5 HCA
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ammonium 2-methyl-2-propenoate, Burnock D 750, 2-butyl-2-ethyl-1,3-propanediol, 1,4-dihydroxy-2-butanesulfonic acid monosodium salt, 2-hydroxyethyl 2-methyl-2-propenoate, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and methyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

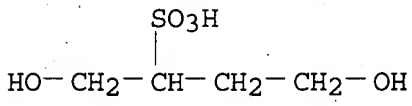
CM 1

CRN 50813-68-8
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

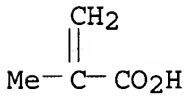
CM 2

CRN 35430-88-7
CMF C4 H10 O5 S . Na



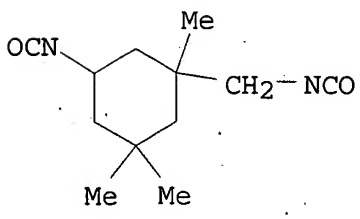
CM 3

CRN 16325-47-6
CMF C4 H6 O2 . H3 N



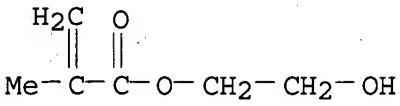
CM 4

CRN 4098-71-9
CMF C12 H18 N2 O2



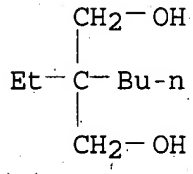
CM 5

CRN 868-77-9
CMF C6 H10 O3



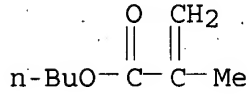
CM 6

CRN 115-84-4
CMF C9 H20 O2



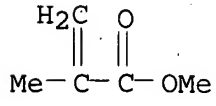
CM 7

CRN 97-88-1
CMF C8 H14 O2



CM 8

CRN 80-62-6
CMF C5 H8 O2



IC ICM C09D005-23
ICS C09D153-00

ICA C08F293-00
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 42, 77
IT **Coating materials**
(abrasion-resistant, magnetic, vinyl polymer-urethane block copolymer binders for smooth)
IT 146227-45-4D, quaternary ammonium salts **152690-04-5D**, quaternary ammonium salts 152725-79-6D, quaternary ammonium salts 152725-80-9D, quaternary ammonium salts 152725-81-0D, quaternary ammonium salts 152725-82-1D, quaternary ammonium salts 152956-13-3D, quaternary ammonium salts
(magnetic coatings contg., smooth, abrasion-resistant)

L62 ANSWER 9 OF 9 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 116:22986 HCA
TITLE: Water-thinned compositions for multilayer coatings
INVENTOR(S): Hartung, Michael; Grabbe, Michael; Mayenfels, Peter
PATENT ASSIGNEE(S): BASF Lacke und Farben A.-G., Germany
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4010176	A1	19911002	DE 1990-4010176	19900330
WO 9115528	A1	19911017	WO 1991-EP464	19910313
W: BR, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
EP 521928	A1	19930113	EP 1991-906285	19910313
EP 521928	B1	19940831		
R: AT, BE, CH, DE, DK, ES, FR, IT, LI, NL, SE				
JP 05501124	T2	19930304	JP 1991-505721	19910313
JP 07033490	B4	19950412		
BR 9106292	A	19930413	BR 1991-6292	19910313
ES 2064096	T3	19950116	ES 1991-906285	19910313
US 5334420	A	19940802	US 1992-927510	19920916
PRIORITY APPLN. INFO.:			DE 1990-4010176	19900330
			WO 1991-EP464	19910313

AB The title compns., useful as primers for 2-coat 1-bake coatings, are prepd. by polymg. unsatd. monomers in org. solvents contg. polyurethanes [no.-av. mol. wt. (Mn) 200-30,000] contg. 0.5-1.1 polymerizable double bonds/mol. A polyurethane was prepd. from adipic acid-hexanediol-neopentyl glycol (I) polyester (Mn 630) 336, I 31, trimethylolpropane (II) monoallyl ether 27.8, II 66.7, and IPDI 275 g in MEK, heated with Bu acrylate 312.5, MMA 312.5, hydroxypropyl acrylate 74.7, and acrylic acid 58.4 g and AIBN for 6 h at 82.degree., mixed with 56.9 g Me2NCH2CH2OH and H2O, and

stripped off MEK in vacuo to give a 40% aq. polymer dispersion with pH 8.1 and av. particle size 100 nm. This dispersion was used as a primer for a 2-coat 1-bake coating with good flow, gloss, mech. properties, and corrosion resistance.

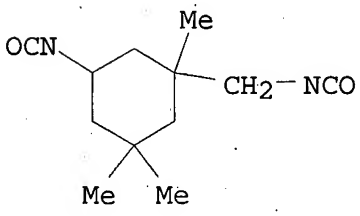
IT **138216-62-3 138216-63-4**
(primers, water-thinned, for 2-coat 1-bake coatings)

RN 138216-62-3 HCA

CN Hexanedioic acid, polymer with 2-butyl-2-ethyl-1,3-propanediol, butyl 2-propenoate, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 2-ethyl-2-[(2-propenyloxy)methyl]-1,3-propanediol, 2,5-furandione, 1,6-hexanediol, 2-hydroxypropyl 2-methyl-2-propenoate, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, methyl 2-methyl-2-propenoate and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

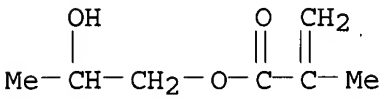
CM 1

CRN 4098-71-9
CMF C12 H18 N2 O2



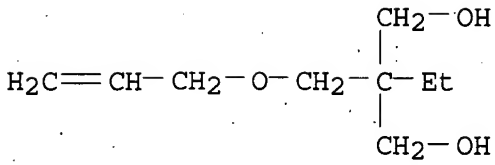
CM 2

CRN 923-26-2
CMF C7 H12 O3



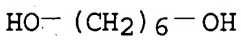
CM 3

CRN 682-11-1
CMF C9 H18 O3



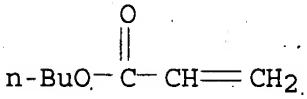
CM 4

CRN 629-11-8
CMF C6 H14 O2



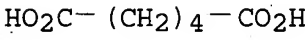
CM 5

CRN 141-32-2
CMF C7 H12 O2



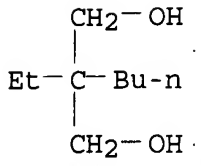
CM 6

CRN 124-04-9
CMF C6 H10 O4



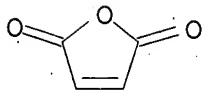
CM 7

CRN 115-84-4
CMF C9 H20 O2



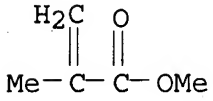
CM 8

CRN 108-31-6
CMF C4 H2 O3



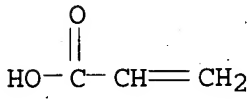
CM 9

CRN 80-62-6
CMF C5 H8 O2



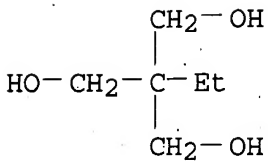
CM 10

CRN 79-10-7
CMF C3 H4 O2



CM 11

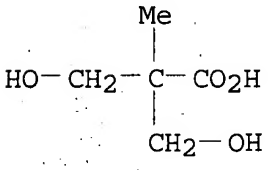
CRN 77-99-6
CMF C6 H14 O3



RN 138216-63-4 HCA
CN Hexanedioic acid, polymer with 2-butyl-2-ethyl-1,3-propanediol, butyl 2-propenoate, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 2-ethyl-2-[(2-propenyloxy)methyl]-1,3-propanediol, 1,6-hexanediol, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 2-hydroxypropyl 2-methyl-2-propenoate, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, methyl 2-methyl-2-propenoate and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

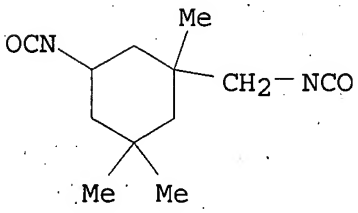
CM 1

CRN 4767-03-7
CMF C5 H10 O4



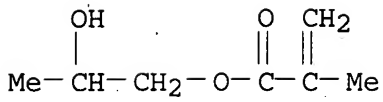
CM 2

CRN 4098-71-9
CMF C12 H18 N2 O2



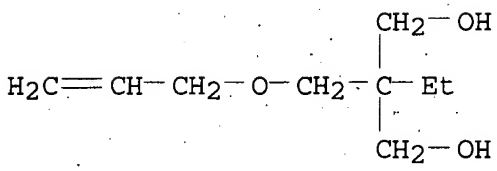
CM 3

CRN 923-26-2
CMF C7 H12 O3



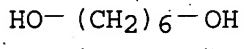
CM 4

CRN 682-11-1
CMF C9 H18 O3



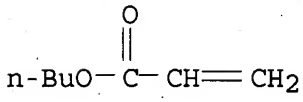
CM 5

CRN 629-11-8
CMF C6 H14 O2



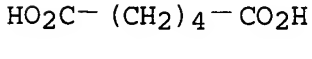
CM 6

CRN 141-32-2
CMF C7 H12 O2



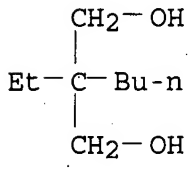
CM 7

CRN 124-04-9
CMF C6 H10 O4



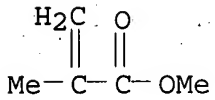
CM 8

CRN 115-84-4
CMF C9 H20 O2



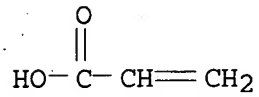
CM 9

CRN 80-62-6
CMF C5 H8 O2



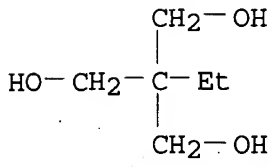
CM 10

CRN 79-10-7
CMF C3 H4 O2



CM 11

CRN 77-99-6
CMF C6 H14 O3



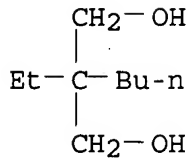
IC ICM B05D007-24
ICS B05D007-26; B05D001-36; C09D151-08; C09D005-02
ICA C08G018-67; C08F283-00
ICI C09D151-08, C09D175-14, C09D133-06, C09D133-14, C09D133-02, C09D135-00, C09D125-02, C09D133-24, C09D131-08, C09D131-02, C09D129-10, C09D139-04, C09D133-22
CC 42-7 (Coatings, Inks, and Related Products)
IT **Coating materials**
(primers, water-thinned, acrylic compd.-grafted polyester-polyurethanes, for 2-coat 1-bake coatings)
IT 138216-61-2 **138216-62-3 138216-63-4**
(primers, water-thinned, for 2-coat 1-bake coatings)

=> d l63 1-6 ibib abs hitstr hitind

L63 ANSWER 1 OF 6 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 129:331972 HCA
TITLE: Polymer modifiers containing polyesters and nitrogen-containing compounds, polymer compositions, and their moldings
INVENTOR(S): Kitahara, Shizuo; Ikeda, Shinya
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10265655	A2	19981006	JP 1997-73909	19970326

AB Modifiers for improvement of coatability of resin and rubber moldings contain polyesters, which are obtained from polyhydric alcs. and polycarboxylic acids and show OH value .gtoreq.30 mg **KOH/g** and Mw 1000-500,000, and N-contg. compds.
Thus, a rubber sheet comprising EPT 3070 (EPDM) 100, Seast 116 50, Diana Process Oil PW 380 60, ZnO 5, stearic acid 1, light CaCO3 60, S 1.0, vulcanization accelerators 3.25, terephthalic acid-2,2-dipropyl-1,3-propanediol-ditrimethylolpropane copolymer 10, and U-CAT SA 102 2 parts was coated with a **urethane** coating to give a test piece showing peeling strength 0.9 kg/cm.
IT **115-84-4DP**, polymers with Haridimer 250 and diethylene glycol and pentaerythritol
(polymer modifiers contg. polyesters and N-contg. compds. for improvement of coatability of moldings)
RN 115-84-4 HCA
CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08L067-00
ICS C08J005-02; C08J007-04; C08K005-16; C08L021-00; C08L101-00
CC 39-9 (Synthetic Elastomers and Natural Rubber)
Section cross-reference(s): 37
IT 111-46-6DP, polymers with Haridimer 250 and butylethylpropanediol and pentaerythritol 115-76-4DP, 2,2-Diethyl-1,3-propanediol, polymers with pentaerythritol and Haridimer 250 115-77-5DP, polymers with Haridimer 250 **115-84-4DP**, polymers with Haridimer 250 and diethylene glycol and pentaerythritol 197806-48-7P, 2-Butyl-2-ethyl-1,3-propanediol-glycerol-terephthalic acid copolymer 208759-99-3P, 2-Butyl-2-ethyl-1,3-propanediol-dipentaerythritol-isophthalic acid-terephthalic acid copolymer 214488-06-9P, 2-Butyl-2-ethyl-1,3-propanediol-neopentylglycol-pentaerythritol-terephthalic acid copolymer 214632-77-6P, 2,2-Dipropyl-1,3-propanediol-ditrimethylolpropane-terephthalic acid copolymer
(polymer modifiers contg. polyesters and N-contg. compds. for improvement of coatability of moldings)

L63 ANSWER 2 OF 6 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 129:17112 HCA
TITLE: Crosslinkable hydroxy terminated polydiene polymer coating compositions for use on substrates and their preparation
INVENTOR(S): St. Clair, David John
PATENT ASSIGNEE(S): Shell Oil Company, USA
SOURCE: U.S., 13 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5750627	A	19980512	US 1996-748291	19961113
US 5916941	A	19990629	US 1998-5412	19980109
US 5962077	A	19991005	US 1998-5237	19980109
US 6043316	A	20000328	US 1998-5238	19980109
PRIORITY APPLN. INFO.:			US 1995-6816	19951116
			US 1996-28378	19961015
			US 1996-748291	19961113

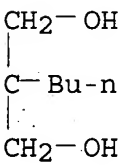
AB A crosslinkable compn. for coating primed and unprimed substrates comprises 10-80% hydroxy functional polydiene polymer having a

functionality .gtoreq.1.3, 8-60% amino resin crosslinking agent, and 2-40% reinforcing agent such as diol. The coating process includes partially reacting the 3 components for 0.5-10 h at 60-120.degree., optionally in the presence of a small amt. of catalyst, to give phase stable compns. and subsequently completely crosslinking the compn. by baking the compn. on a substrate. Thus, partial reaction of a compn. of hydroxy terminated hydrogenated polybutadiene (no.-av. mol. wt. 3300) 40, trimethylolpropane diol 20, Cymel 1156 40, Cycat 600 0.4, and naphtha 67 parts and casting onto cold rolled steel panels, and baking 20 min at 175.degree. gave a coating having pencil hardness HB, MEK double rubs >100, good clarity, gloss and mar resistance.

IT **115-84-4**
(crosslinkable hydroxy-terminated polydiene polymer coating compns. for use on steel and thermoplastic olefin substrates for films with good hard surface qualities)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08F008-32

NCL 525162000

CC 42-10 (Coatings, Inks, and Related Products)

ST hard solvent resistant polydiene coating; aminoplast crosslinker hydroxy polydiene coating; diol reinforced crosslinked hydroxy polydiene coating; basecoat **clearcoat** automotive **coating** polydiene diol; precooking crosslinker polydiene diol coating process

IT 56-81-5, 1,2,3-Propanetriol, uses 57-55-6, 1,2-Propanediol, uses 77-85-0, Trimethylolethane 77-99-6 80-04-6, Hydrogenated bisphenol A 80-05-7, uses 94-96-2, 2-Ethyl-1,3-hexane diol 107-21-1, 1,2-Ethanediol, uses 110-63-4, 1,4-Butanediol, uses **115-84-4** 126-30-7 144-19-4, 2,2,4-Trimethyl-1,3-pentane diol 504-63-2, 1,3-Propanediol 629-11-8, 1,6-Hexanediol 2163-42-0 27193-25-5, Cyclohexane dimethanol
(crosslinkable hydroxy-terminated polydiene polymer coating compns. for use on steel and thermoplastic olefin substrates for films with good hard surface qualities)

L63 ANSWER 3 OF 6 HCA COPYRIGHT 2000 ACS

ACCESSION NUMBER: 128:271791 HCA

TITLE: Coating crosslinkable epoxidized monohydroxylated diene polymer coating compositions on primed substrates

INVENTOR(S): Saint Clair, David John
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B.V., Neth.
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

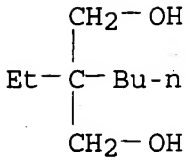
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9816327	A1	19980423	WO 1997-EP5764	19971014
W: BR, CA, CN, JP, KR, MX				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5922467	A	19990713	US 1997-938289	19970926
ZA 9709133	A	19980717	ZA 1997-9133	19971013
BR 9712295	A	19990831	BR 1997-12295	19971014
EP 948414	A1	19991013	EP 1997-912200	19971014
R: BE, DE, ES, FR, GB, IT, NL				
CN 1233197	A	19991027	CN 1997-198785	19971014
PRIORITY APPLN. INFO.:			US 1996-28500	19961015
			WO 1997-EP5764	19971014

AB Various substrates (useful in automotive coating systems) are coated by (a) priming the substrate with a primer selected from epoxy resin primers and polyester resin primers; (b) next applying a crosslinkable basecoat compn. comprising 10-90% epoxidized monohydroxylated polydiene polymer, 8-60% amino resin crosslinking agent, and 2-40% reinforcing agent; and (c) applying over the basecoat a **clearcoat** selected from epoxidized monohydroxylated polydiene-based **clearcoats**, polyester **clearcoats**, and acrylic **clearcoats**. Primed steel panels were coated with a compn. contg. butadiene-isoprene-styrene block copolymer having OH and epoxy functionality 60, 2,2,4-trimethyl-1,3-pentanediol 10, Cymel 1141 30, acid catalyst 1, and solvent 67 parts and baked at 100.degree. to give hard coatings with good crosshatch adhesion.

IT **115-84-4DP**, 2-Butyl-2-ethyl-1,3-propanediol, polymer with epoxidized monohydroxylated diene polymer and amino crosslinker (crosslinkable epoxidized monohydroxylated diene polymer coating compns. on primed substrates in base **coat/clear coat** automotive systems)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM B05D007-00
ICS C09D163-08
CC 42-10 (Coatings, Inks, and Related Products)
ST epoxidized monohydroxylated polydiene basecoat **clearcoat**; amino crosslinked polydiene basecoat; polyester **clearcoat** basecoat compn; acrylic **clearcoat** basecoat compn; epoxy primer adhesion epoxidized polydiene basecoat; hard coating epoxidized polydiene basecoat; mech property crosslinked epoxidized polydiene coating
IT Coatings
(hard; crosslinkable epoxidized monohydroxylated diene polymer coating compns. on primed substrates in base **coat/clear coat** automotive systems)
IT 137463-89-9, Desmophen 670A-80
(**clear coat**; crosslinkable epoxidized monohydroxylated diene polymer coating compns. on primed substrates in base **coat/clear coat** automotive systems)
IT **115-84-4DP**, 2-Butyl-2-ethyl-1,3-propanediol, polymer with epoxidized monohydroxylated diene polymer and amino crosslinker 144-19-4DP, 2,2,4-Trimethyl-1,3-pentanediol, polymer with epoxidized monohydroxylated diene polymer and amino crosslinker 71343-52-7DP, Cymel 1141, polymer with epoxidized monohydroxylated diene polymer 109264-12-2DP, Butadiene-isoprene block copolymer, hydrogenated, hydroxy and epoxy group-contg., polymer with amino resin 110389-01-0DP, Butadiene-isoprene-styrene block copolymer, hydrogenated, hydroxy and epoxy group-contg., polymer with amino resin
(crosslinkable epoxidized monohydroxylated diene polymer coating compns. on primed substrates in base **coat/clear coat** automotive systems)
IT 12597-69-2, Steel, miscellaneous 205453-86-7, Dexflex 880
(good adhesion of basecoat; crosslinkable epoxidized monohydroxylated diene polymer coating compns. on primed substrates in base **coat/clear coat** automotive systems)
IT 56-81-5, 1,2,3-Propanetriol, uses 57-55-6, 1,2-Propanediol, uses 77-85-0, Trimethylolethane 77-99-6 80-04-6 80-05-7, uses 94-96-2, 2-Ethyl-1,3-hexanediol 107-21-1, 1,2-Ethanediol, uses 110-63-4, 1,4-Butanediol, uses 126-30-7 504-63-2, 1,3-Propanediol 629-11-8, 1,6-Hexanediol 2163-42-0, 2-Methyl-1,3-propanediol 27193-25-5, Cyclohexanedimethanol
(reinforcing diol reactive with crosslinker; crosslinkable epoxidized monohydroxylated diene polymer coating compns. on

primed substrates in base **coat/clear** **coat** automotive systems)

L63 ANSWER 4 OF 6 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 127:67437 HCA
TITLE: Crosslinkable hydroxy-functional polydiene polymer coating compositions and a process for preparing them.
INVENTOR(S): St. Clair, David John
PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B.V., Neth.
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9718264	A1	19970522	WO 1996-EP5023	19961112
W: BR, CA, CN, JP, KR, MX				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2237566	AA	19970522	CA 1996-2237566	19961112
EP 861292	A1	19980902	EP 1996-939053	19961112
EP 861292	B1	20000607		
R: BE, DE, ES, FR, GB, IT, NL				
CN 1205725	A	19990120	CN 1996-199123	19961112
JP 2000500181	T2	20000111	JP 1997-518593	19961112
PRIORITY APPLN. INFO.:			US 1995-6816	19951116
			US 1996-28378	19961015
			WO 1996-EP5023	19961112

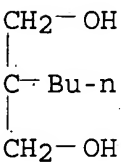
AB A crosslinkable phase-stable compn., in particular for coating primed and unprimed substrates comprising from 10 to 80 percent by wt. of a hydroxy functional polydiene polymer having a functionality of at least 1.3, 8 to 60 percent by wt. of an amino resin crosslinking agent, and 2 to 40 percent by wt. of a reinforcing agent, which typically has .gtoreq.2 functional groups that reacts with the crosslinking agent at elevated temps. The invention also encompasses a process to make such compns. by partially reacting the three components, preferably for 0.5 to 10 h at 60 to 120.degree.C, and optionally in the presence of a small amt. of catalyst, to give phase stable compns. and subsequently completely crosslinking the compn. The invention also encompasses a process for painting a substrate which comprises priming the substrate with a primer selected from the group consisting of epoxy resin primers and polyester resin primers, applying to the primed substrate a crosslinkable basecoat compn. comprising from 10 to 80 percent by wt. of a hydroxy functional polydiene polymer having a functionality of at least 1.3, from 8 to 60 percent by wt. of an amino resin crosslinking agent, and from 2 to 40 percent by wt. of a reinforcing

agent, and applying over the base **coat** a **clearcoat** selected from the group consisting of dihydroxy polydiene-based **clearcoats**, polyester **clearcoats**, and acrylic **clearcoats**. A typical coating compn. contained hydrogenated polybutadienediol 40, 2,2,4-trimethyl-1,3-pentanediol 20, 2-butyl-2-ethyl-1,3-propanediol 20, Cymel 1156 40, Cycat 600 0.4, and aliph. hydrocarbons 67 parts.

IT **115-84-4**, 2-Butyl-2-ethyl-1,3-propanediol
(reactive diluent; thermosetting hydroxy-functional polydiene polymer coatings)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08L019-00
ICS C08L019-02

CC 42-10 (Coatings, Inks, and Related Products)

IT 80-04-6, Hydrogenated bisphenol A 80-05-7, Bisphenol A, uses **115-84-4**, 2-Butyl-2-ethyl-1,3-propanediol 144-19-4, 2,2,4-Trimethyl-1,3-pentanediol
(reactive diluent; thermosetting hydroxy-functional polydiene polymer coatings)

L63 ANSWER 5 OF 6 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 126:19825 HCA
TITLE: Oil-soluble polyesters, resin modifiers therefrom, and resin compositions containing them
INVENTOR(S): Kitahara, Shizuo
PATENT ASSIGNEE(S): Nippon Zeon Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08245770	A2	19960924	JP 1995-80796	19950313

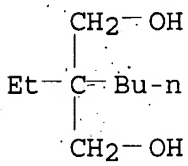
AB The polyesters having wt.-av. mol. wt. (Mw) 1000-500,000 and acid value 20-200 mg-**KOH/g** obtained by polycondensation of .gtoreq.3-valent component-contg. polycarboxylic acids and polyols at CO2H/OH equiv. ratio of 1.02-3 are useful for

improvement of coatability, adhesion, and printability of polyolefins. Thus, Haridimer 300 182.0, Haridimer 500 410.0, and 2-ethyl-2-butyl-1,3-propanediol 156.0 g (CO2H/OH 1.40) were esterified and polymd. in the presence of monobutyltin oxide to give a polyester (Mw 8900, acid value 41.4 mg-**KOH/g**), 2 parts of which was blended with 98 parts MS 670 (polypropylene), kneaded, and compression molded to give a film showing contact angle 80 degree and good adhesion to a **urethane** coating.

IT **115-84-4DP**, 2-Ethyl-2-butyl-1,3-propanediol, polymers with fatty acid dimers
(oil-sol. polyesters for polyolefin modifiers)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08G063-12
ICS C08L067-00; C08L101-00

CC 37-6 (Plastics Manufacture and Processing)

IT **115-84-4DP**, 2-Ethyl-2-butyl-1,3-propanediol, polymers with fatty acid dimers 137802-76-7DP, Haridimer 500, polymers with fatty acid dimers and polyols 183851-94-7P 183851-98-1P
(oil-sol. polyesters for polyolefin modifiers)

L63 ANSWER 6 OF 6 HCA COPYRIGHT 2000 ACS

ACCESSION NUMBER:	125:61115 HCA
TITLE:	Reactive two-part polyurethane compositions and optionally self-healable and scratch-resistant coatings prepared therefrom
INVENTOR(S):	Ho, Chia-Tie
PATENT ASSIGNEE(S):	Minnesota Mining and Mfg. Co., USA
SOURCE:	PCT Int. Appl., 118 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9610595	A1	19960411	WO 1995-US12812	19951003
W: AU, BR, CA, CN, JP, KR, MX, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2200216	AA	19960411	CA 1995-2200216	19951003

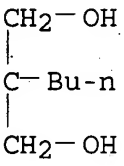
AU 9539485	A1	19960426	AU 1995-39485	19951003
AU 705850	B2	19990603		
EP 784641	A1	19970723	EP 1995-937356	19951003
R: DE, ES, FR, GB, IT, NL, SE				
CN 1159816	A	19970917	CN 1995-195489	19951003
BR 9509250	A	19971021	BR 1995-9250	19951003
JP 10506940	T2	19980707	JP 1995-512133	19951003
US 5798409	A	19980825	US 1997-817610	19970401
PRIORITY APPLN. INFO.:			US 1994-317853	19941004
			WO 1995-US12812	19951003

AB The title two-part reactive polyurethane compns. are prepd. and cured to give coatings exhibiting high damping character, excellent scratch-resistance, excellent mar-resistance, and self-healing characteristics.

IT **115-84-4DP**, polymers with polyester diol, carbinol-terminated siloxanes and polyisocyanates
(reactive two-part polyurethane compns. for self-healable and scratch-resistant coatings)

RN 115-84-4 HCA

CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IC ICM C08G018-42
ICS C08G018-66; C08G018-12; C08G018-08; C08G018-61; C08G018-62; C08G018-50; C08G018-40; C09D175-04

ICI C09D175-04, C09D133-00

CC 42-10 (Coatings, Inks, and Related Products)

ST water base two part reactive polyurethane; scratch resistant polyester polyurethane coating; **clear coat** polyester polyurethane; acrylic polyurethane curable coating; siloxane polyurethane coating material; self healing polyurethane coating

IT 75-21-8DP, Oxirane, polymers with di-Me siloxanes, polyurethanes 77-99-6DP, polymers with polyester diol, carbinol-terminated siloxanes and polyisocyanates 105-08-8DP, 1,4-Cyclohexanedimethanol, polymers with polyester diol, carbinol-terminated siloxanes and polyisocyanates **115-84-4DP**, polymers with polyester diol, carbinol-terminated siloxanes and polyisocyanates 5124-30-1DP, polymers with polyester diol, carbinol-terminated siloxanes and polyisocyanates 54735-63-6DP, Tone 305, polymers with polyester diol, carbinol-terminated siloxanes and polyisocyanates 112326-97-3DP, Joncryl 540, polymers with polyester diol, carbinol-terminated siloxanes and polyisocyanates 133248-70-1DP, polymers with polyester diol,

carbinol-terminated siloxanes and polyisocyanates 169150-66-7DP, Bayhydrol XP 7043, polymers with polyester diol, and carbinol-terminated siloxanes 174206-44-1DP, Luxate HT 2000, polymers with polyester diol, carbinol-terminated siloxane and perfluoro ether diol 178096-32-7P, DP 56-160 178253-79-7P 178253-85-5P 178253-87-7P 178253-88-8P 178253-89-9P 178253-90-2P
(reactive two-part polyurethane compns. for self-healable and scratch-resistant coatings)

=> d l64 1-24 ibib abs hitstr hitind

L64 ANSWER 1 OF 24 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 133:18834 HCA
TITLE: Water-thinned, 3-component coating compositions **containing hydroxy-containing polyacrylates** and **polyisocyanates**, and their manufacture and use
INVENTOR(S): Mayer, Bernd; Rink, Heinz-Peter; Nienhaus, Egbert; Loecken, Wilma
PATENT ASSIGNEE(S): Basf Coatings A.-G., Germany
SOURCE: Ger. Offen., 24 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19855125	A1	20000531	DE 1998-19855125	19981130
WO 2000032665	A1	20000608	WO 1999-EP8048	19991023

W: BR, JP, US
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: DE 1998-19855125 19981130
AB Three-component systems for manuf. of coatings with improved water resistance **contain hydroxy-contg. polyacrylates** having Y(OR)n side and(or) end chains (Y = H or C1-4 alkyl, R = C2-6 alkylene or C3-8 cycloalkylene, n = 3-100) in 1 of the 2 nonaq. components based on water-thinnable solvents and, optionally, in the aq. component and a **polyisocyanate** in the other nonaq. component based on water-thinnable solvents. A typical **polyacrylate** was manufd. by radical-soln.-polymn. of Bu **methacrylate** 231, Me **methacrylate** 261, styrene 271, polyethylene glycol **monomethacrylate** 300, and hydroxyethyl **acrylate** 437 g.
IT **272119-92-3P**
(addnl. binder component precursor; water-thinned, 3-component

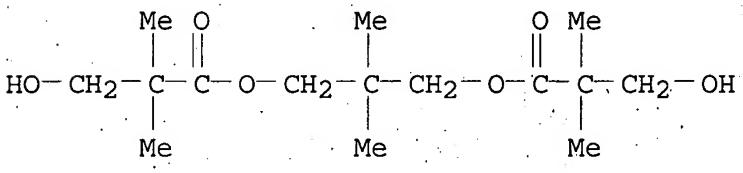
compns. **contg. hydroxy**- and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)

RN 272119-92-3 HCA

CN 1,3-Benzenedicarboxylic acid, polymer with 2-butyl-2-ethyl-1,3-propanediol, 2,2-dimethyl-1,3-propanediol, 2,2-dimethyl-1,3-propanediyl bis(3-hydroxy-2,2-dimethylpropanoate) and 1,3-isobenzofurandione (9CI) (CA INDEX NAME)

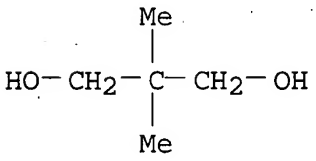
CM 1

CRN 60251-13-0
CMF C15 H28 O6



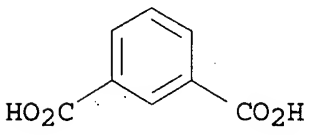
CM 2

CRN 126-30-7
CMF C5 H12 O2



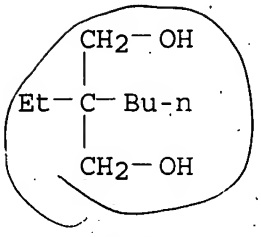
CM 3

CRN 121-91-5
CMF C8 H6 O4



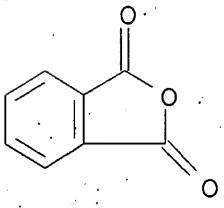
CM 4

CRN 115-84-4
CMF C9 H20 O2



CM 5

CRN 85-44-9
CMF C8 H4 O3



IT **272119-94-5P**
(addnl. binder component; water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)
RN 272119-94-5 HCA
IC ICM C09D175-04
ICS C09D133-14; C09D167-00
CC 42-7 (Coatings, Inks, and Related Products)
ST waterborne waterproof **polyisocyanate** crosslinked **hydroxy** polyoxyalkylene **contg polyacrylate** coating; hydroxyethyl **acrylate** copolymer water thinned waterproof coating; polyethylene glycol **methacrylate** copolymer water thinned waterproof coating
IT **Polyurethanes**, uses
(**polyester-**, addnl. binder component; water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)
IT **Coating materials**
(water-resistant, water-thinned; water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanat s** for waterproof coatings)
IT **272119-92-3P**

(addnl. binder component precursor; water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)

IT **272119-94-5P** 272119-95-6P
(addnl. binder component; water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)

IT 272770-94-2P 272770-96-4P 272770-97-5P 272770-98-6P
(crosslinked coating; water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)

IT 822-06-0D, HDI, allophanate derivs.
(crosslinker; water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)

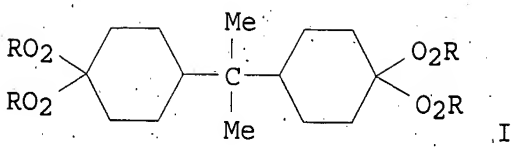
IT 272119-96-7P 272119-97-8P
(water-thinned, 3-component compns. **contg. hydroxy-** and polyoxyalkylene-**contg. polyacrylates** and **polyisocyanates** for waterproof coatings)

REFERENCE COUNT: 1
REFERENCE(S): (1) Anon; DE 195842626 A1

L64 ANSWER 2 OF 24 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 131:338352 HCA
TITLE: **Acrylic** resins and **acrylic** coating compositions with improved acid and soiling resistance
INVENTOR(S): Nakajima, Yoshio; Yugawa, Yoshiyuki; Aida, Akihiko
PATENT ASSIGNEE(S): Kansai Paint Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11302589	A2	19991102	JP 1998-109190	19980420

GI



I

AB **Acrylic** resins, for providing coating compns. with improved acid and soiling resistance, are obtained by copolymg. (1) 20-70 wt.% of a benzene ring-contg. unsatd. monomer, (2) a **hydroxy-contg.** unsatd. monomer, (3) a monomer with >1 vinyl group, and optionally, other monomers in the presence of peroxide I (R = tert-alkyl, tert-aralkyl). A coating compn. comprises the above **acrylic** resin and a hardening agent selected from aminoplast resins, **polyisocyanates**, and blocked **polyisocyanates**. A coating method using the above coating compn. is also claimed.

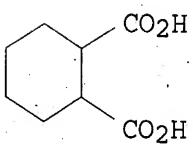
IT **249556-26-1DP**, reaction products with **methacrylic** acid derivs., polymers
(**acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)

RN 249556-26-1 HCA

CN 1,3-Benzenedicarboxylic acid, polymer with 2-butyl-2-ethyl-1,3-propanediol, 1,2-cyclohexanedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, hexanedioic acid and 1,6-hexanediol (9CI) (CA INDEX NAME)

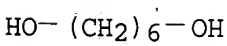
CM 1

CRN 1687-30-5
CMF C8 H12 O4



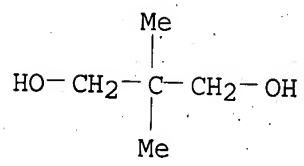
CM 2

CRN 629-11-8
CMF C6 H14 O2



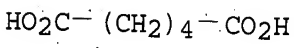
CM 3

CRN 126-30-7
CMF C5 H12 O2



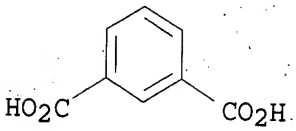
CM 4

CRN 124-04-9
CMF C6 H10 O4



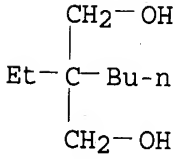
CM 5

CRN 121-91-5
CMF C8 H6 O4



CM 6

CRN 115-84-4
CMF C9 H20 O2



IC ICM C09D125-00

ICS C08F004-36
CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): 37
ST **acrylic** coating acid soiling resistance
IT **Coating materials**
(acid-resistant; **acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)
IT **Coating process**
(**acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)
IT Aminoplasts
(**acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)
IT **Polyesters**, uses
(**acrylic**; **acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)
IT **Coating materials**
(antisoiling; **acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)
IT 3088-74-2, 2,2-Bis(4,4-di-tert-butylperoxycyclohexyl)propane
(**acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)
IT 128171-41-5P, Styrene-n-butyl **methacrylate**-isobutyl **methacrylate**-lauryl **methacrylate**-**methacrylic** acid-**acrylic** acid copolymer
(**acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)
IT 79-41-4DP, **Methacrylic** acid, reaction products, polymers 97-88-1DP, n-Butyl **methacrylate**, polymers 100-42-5DP, Styrene, polymers 106-91-2DP, Glycidyl **methacrylate**, reaction products with **polyesters**, polymers 121-44-8DP, Triethylamine, salts with modified **polyesters**, polymers 141-32-2DP, polymers 868-77-9DP, 2-Hydroxyethyl **methacrylate**, polymers 2478-10-6DP, 4-Hydroxybutyl **acrylate**, polymers 3126-63-4DP, Pentaerythritol tetraglycidyl ether, reaction products with **methacrylic** acid, polymers 26588-80-7DP, Styrene-methyl **methacrylate**-butyl **acrylate**-2-hydroxyethyl **methacrylate** copolymer, reaction products with **methacrylic** acid and **isocyanatoethyl methacrylate**, polymers 30674-80-7DP, reaction products with **polyesters**, polymers 42767-92-0DP, Butyl **acrylate**-2-hydroxyethyl **acrylate**-methyl **methacrylate**-styrene copolymer, reaction products with **methacrylic** acid and **isocyanatoethyl methacrylate**, polymers 249556-25-0DP, reaction products with **methacrylic** acid derivs., polymers **249556-26-1DP**, reaction products with **methacrylic** acid derivs., polymers 249556-27-2DP, reaction products with **methacrylic** acid and **isocyanatoethyl methacrylate**, polymers 249562-45-6DP, Vylon GK 19CS, reaction products with **methacrylic** acid derivs., polymers 249563-15-3DP, Vylon KS 2050, reaction products with

methacrylic acid derivs., polymers 249563-27-7DP, Vylon KS 2820, reaction products with **methacrylic** acid derivs., polymers 249563-42-6DP, Vylon KS 2700, reaction products with **methacrylic** acid derivs., polymers
(**acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)

IT 9003-08-1 127464-53-3, Desmodur N 3500
(**acrylic** resins and **acrylic** coating compns. with improved acid and soiling resistance)

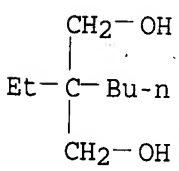
L64 ANSWER 3 OF 24 HCA COPYRIGHT 2000 ACS
ACCESSION NUMBER: 129:331973 HCA
TITLE: Polymer modifiers containing phenolic resins and polymer polyols, polymer compositions, and their moldings
INVENTOR(S): Kitahara, Shizuo; Ikeda, Shinya
PATENT ASSIGNEE(S): Nippon Zeon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10265656	A2	19981006	JP 1997-73912	19970326

AB Modifiers for improvement of coatability of resin or rubber moldings contain phenolic resins and other polymer polyols. Thus, a rubber sheet comprising EPT 3070 (EPDM) 100, Seast 116 140, Diana Process Oil PW 380 57, ZnO 5, stearic acid 1, Vesta PP (drying agent) 5, S 1.0, vulcanization accelerators 3.25, terephthalic acid-2,2-dipropyl-1,3-propanediol-ditrimethylolpropane copolymer 8, and PS 2608 (thermoplastic phenolic resin) 5 parts was coated with a **urethane** coating to give a test piece showing peeling strength 1.4 kg/cm2.

IT **115-84-4DP**, polymers with Haridimer 250 and diethylene glycol and pentaerythritol **197806-48-7P** **208759-99-3P** **214632-77-6P**
(polymer modifiers contg. phenolic resins and **polyester** polyols for improvement of coatability of polymer moldings)

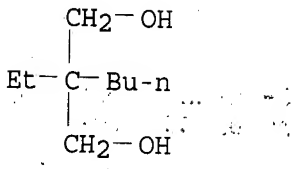
RN 115-84-4 HCA
CN 1,3-Propanediol, 2-butyl-2-ethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 197806-48-7 HCA
CN 1,4-Benzenedicarboxylic acid, polymer with 2-butyl-2-ethyl-1,3-propanediol and 1,2,3-propanetriol (9CI) (CA INDEX NAME)

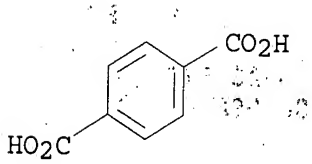
CM 1

CRN 115-84-4
CMF C9 H20 O2



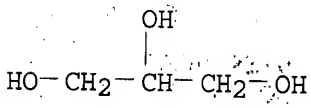
CM 2

CRN 100-21-0
CMF C8 H6 O4



CM 3

CRN 56-81-5
CMF C3 H8 O3



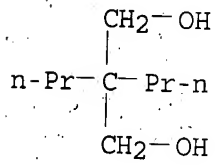
RN 208759-99-3 HCA
CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, 2-butyl-2-ethyl-1,3-propanediol and 2,2'-[oxybis(methylene)]bis[2-(hydroxymethyl)-1,3-propanediol] (9CI) (CA INDEX NAME)

CM 1

RN 214632-77-6 HCA
CN 1,4-Benzenedicarboxylic acid, polymer with 2,2-dipropyl-1,3-propanediol and 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (9CI) (CA INDEX NAME)

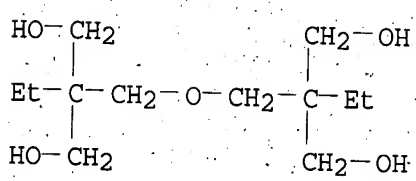
CM 1

CRN 24765-54-6
CMF C9 H20 O2



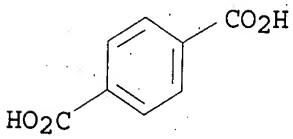
CM 2

CRN 23235-61-2
CMF C12 H26 O5



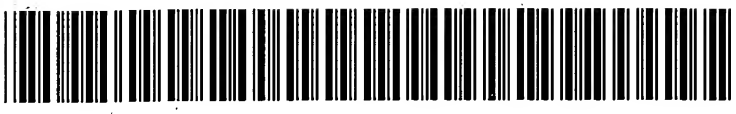
CM 3

CRN 100-21-0
CMF C8 H6 O4



IC ICM C08L067-00
ICS C08L061-06; C08L069-00; C08L101-06; C09D201-06
CC 39-9 (Synthetic Elastomers and Natural Rubber)
Section cross-reference(s): 37, 42
ST polymer modifier phenolic resin **polyester** polyol; EPDM rubber modifier phenolic resin polyol; terephthalate propanediol

US 0944496808P1



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Team: OIPEBackFileIndexing
Dossier: 09444968

Legal Date: 09-13-2000

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3	1449	1

Total number of pages: 8

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